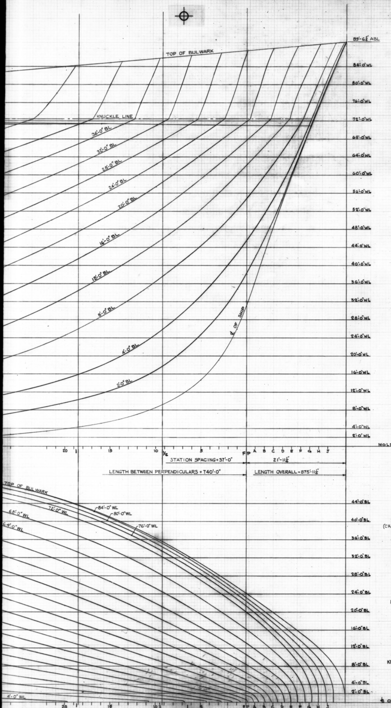
GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. S05-00-03 GD NO. 30220-01x2 FRAME ① 2 3 4



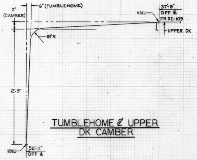
85'-6¼" ABL
TOP OF BULWARK
84'-0"WL
80'-0"WL
76'-0"WL
KNUCKLE LINE
72'-0"WL
36'-0" BL
68'-0"WL
32'-0" BL
64'-0"WL
28'-0" BL
60'-0"WL
24'-0" BL
56'-0"WL
20'-0" BL
52'-0"WL
48'-0"WL
16'-0" BL
44'-0"WL
40'-0"WL
12'-0" BL
36'-0"WL
32'-0"WL
8'-0" BL
28'-0"WL
℄ OF SHIP
24'-0"WL
4'-0" BL
20'-0"WL
16'-0"WL
2'-0" BL
12'-0"WL
8'-0"WL
4'-0"WL
2'-0"WL
MOLDED BASE LINE
20
15
10
10½
5
FP A B C D E F G H J
STATION SPACING = 37'-0"
21'-11½"
LENGTH BETWEEN PERPENDICULARS = 740'-0"
LENGTH OVERALL = 875'-11½"
TOP OF BULWARK
84'-0" WL
80'-0" WL
76'-0" WL
72'-0" WL
68'-0" WL
64'-0" WL
44'-0" BL
40'-0" BL
36'-0" BL
32'-0" BL
28'-0" BL
24'-0" BL
20'-0" BL
16'-0" BL
12'-0" BL
8'-0" BL
4'-0" BL
2'-0" BL
4'-0" WL
℄ OF SHIP

PRINCIPAL CHARACTERISTICS

LENGTH OVERALL	875'-11½"
LENGTH BETWEEN PERPENDICULARS (20 STATIONS)	740'-0"
STATION SPACING	37'-0"
BEAM, MAXIMUM MOLDED	105'-10"
DEADRISE	1"
DESIGN DRAFT	31'-0"

EXCLUDING CANTILEVER

LENGTH DWL	740'-0"
DISPLACEMENT AT DWL (MLD)	40,690 TONS
MIDSHIP SECTION COEF. AT DWL	0.968
BLOCK COEF. AT DWL	0.587
PRISMATIC COEF AT DWL	0.606
LCB AT DWL	34.7' AFT OF STA 10



6" (TUMBLEHOME)
9" (CAMBER)
18"R
12'-9"
KNU
52'-11" OFF ℄
KNU
37'-8" OFF ℄
FR 22-109
UPPER DK

TUMBLEHOME & UPPER DK CAMBER

3 2 1

REVISIONS ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD

REVISIONS ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. PLAN APPROVED BY IRM MEMO D7D 5-31-72	[illegible]	[illegible]	—		23 JUN 1972	[illegible]

GENERAL NOTES

REVISIONS TO	O	A	B	C
		[illegible] 2		
LYKES		1		
M.A.(WASH)		1		
M.A.(YARD)		1		
J.J.HENRY(YARD)		1		
J.J.HENRY(HOME)		2		
ABS YD		1		
USCG YD		1		
USPHS				
871		4		
872				
873				
874				
875				
876				
TOTAL NRO'S FS		12		
TOTAL NRO'S HS				
TOTAL RO				

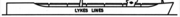
SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
	A	6/21/72	800	4	
			820	5	
			826	12	
			829		
			830	7	
			841		
			842		
			843	1	
			844	5	
			899		
			LIBRARY	3	
		[illegible]	812	1	
		[illegible]	812	1	
			828	1	
			835	1	
			TOTAL	41	

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE



LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
1	MOLD LOFT OFFSETS	30220-01 X 1	241-S05-00-02

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO. 30220-01X2

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR HAKULIN
SUPV
ENGR

LINES PLAN

APPROVED DATE
F. G. Roff 5/31/72
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	S05-00-03	A

SCALE 3/16" = 1'-0" SHEET 1 OF 1

APPROVAL LTR DATED
ABS Not Reqd
USCG
USPHS Not Reqd

MICROFILMED
A 6-27-72
A 11-9-73

AREA = 52 SQ FT

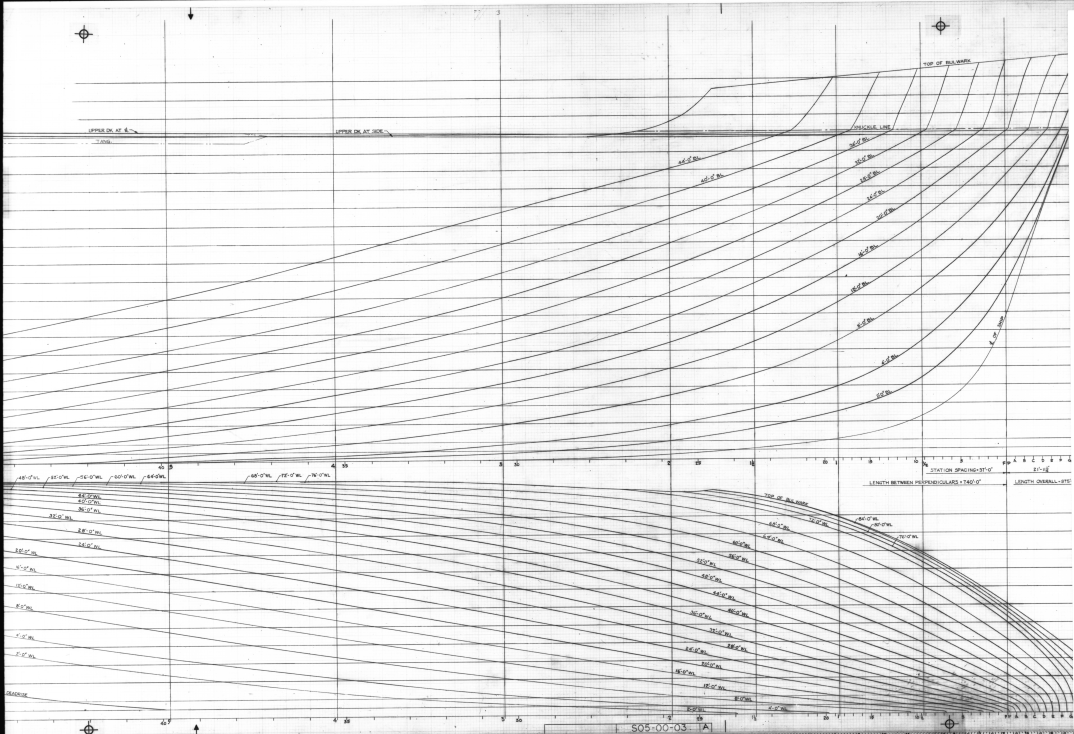
M.A. DWG NO. S05-00-03

Q div DWG NO. 30220-01 X 2

DWG. NO. 30220-01 X 2

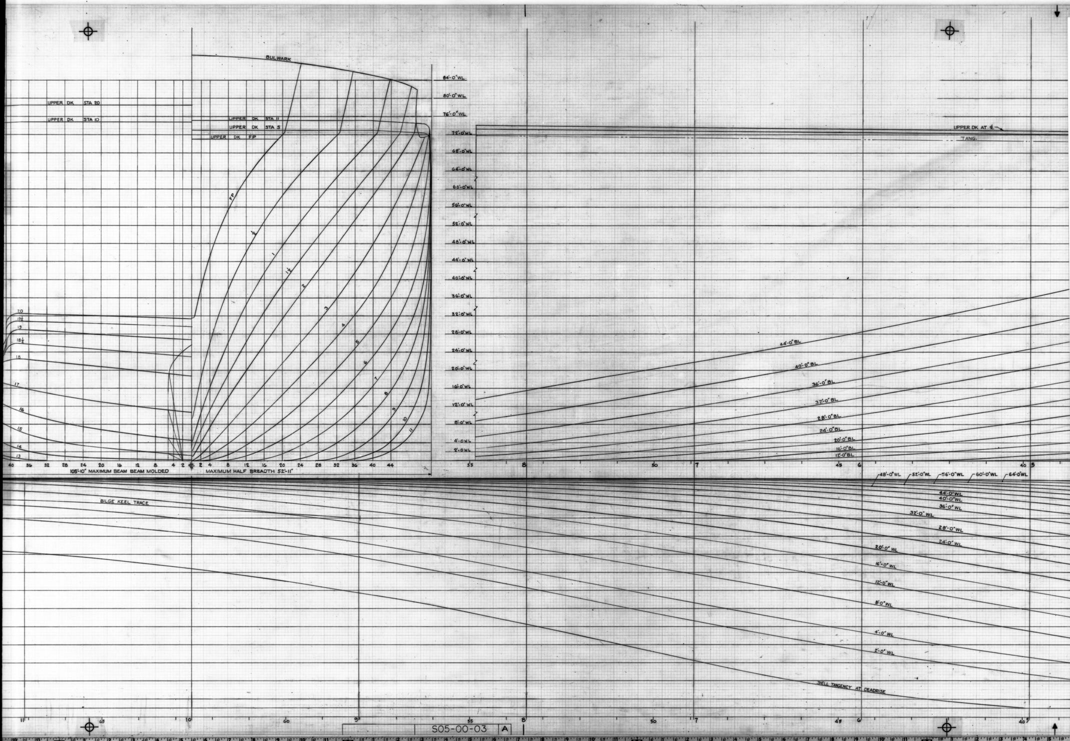
GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. S05-00-03 GD NO. 30220-01 x2 FRAME 1 ② 3 4



TOP OF BULWARK
UPPER DK AT ℄
TANG.
UPPER DK AT SIDE
KNUCKLE LINE
44'-0" BL
40'-0" BL
36'-0" BL
32'-0" BL
28'-0" BL
24'-0" BL
20'-0" BL
16'-0" BL
12'-0" BL
8'-0" BL
4'-0" BL
2'-0" BL
℄ OF SHIP
40
45
4
35
3
30
2
25
1½
20
1
15
10
½
5
FP
A
B
C
D
E
F
G
STATION SPACING = 37'-0"
21'-11¼"
LENGTH BETWEEN PERPENDICULARS = 740'-0"
LENGTH OVERALL = 875'
48'-0" WL
52'-0" WL
56'-0" WL
60'-0" WL
64'-0" WL
68'-0" WL
72'-0" WL
76'-0" WL
44'-0" WL
40'-0" WL
36'-0" WL
32'-0" WL
28'-0" WL
24'-0" WL
20'-0" WL
16'-0" WL
12'-0" WL
8'-0" WL
4'-0" WL
2'-0" WL
DEADRISE
TOP OF BULWARK
84'-0" WL
80'-0" WL
72'-0" WL
76'-0" WL
68'-0" WL
64'-0" WL
60'-0" WL
56'-0" WL
52'-0" WL
48'-0" WL
44'-0" WL
40'-0" WL
36'-0" WL
32'-0" WL
28'-0" WL
24'-0" WL
20'-0" WL
16'-0" WL
12'-0" WL
8'-0" WL
4'-0" WL
2'-0" WL

S05-00-03 A

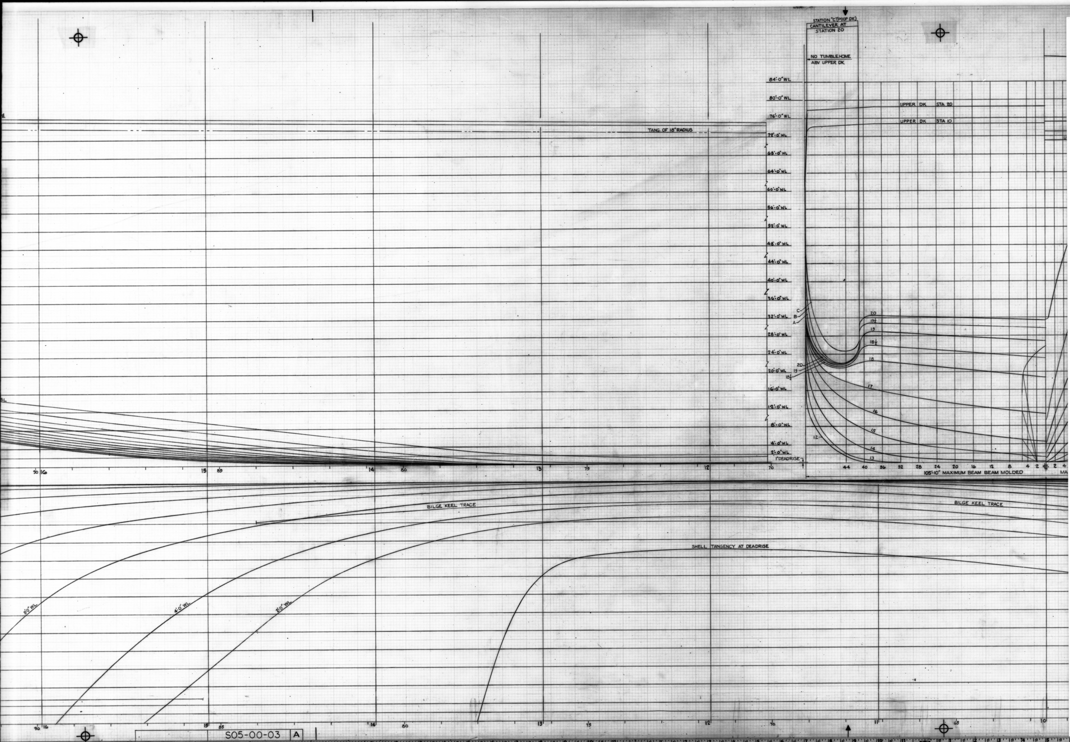

BULWARK
84'-0" WL
80'-0" WL
76'-0" WL
72'-0" WL
68'-0" WL
64'-0" WL
60'-0" WL
56'-0" WL
52'-0" WL
48'-0" WL
44'-0" WL
40'-0" WL
36'-0" WL
32'-0" WL
28'-0" WL
24'-0" WL
20'-0" WL
16'-0" WL
12'-0" WL
8'-0" WL
4'-0 WL
2'-0 WL
UPPER DK STA 20
UPPER DK STA 10
UPPER DK STA 11
UPPER DK STA 5
UPPER DK FP
UPPER DK AT ℄
TANG.
FP
½
1
1½
2
3
4
5
6
7
8
9
10
11
20
19½
19
18½
18
17
16
15
14
13
40 36 32 28 24 20 16 12 8 4 2 ℄ 2 4 8 12 16 20 24 28 32 36 40 44
105'-10" MAXIMUM BEAM BEAM MOLDED
MAXIMUM HALF BREADTH 52'-11"
44'-0" BL
40'-0" BL
36'-0" BL
32'-0" BL
28'-0" BL
24'-0" BL
20'-0" BL
16'-0" BL
12'-0" BL
55
8
50
7
45
6
40
5
48'-0" WL
52'-0" WL
56'-0" WL
60'-0" WL
64'-0" WL
44'-0" WL
40'-0" WL
36'-0" WL
32'-0" WL
28'-0" WL
24'-0" WL
20'-0" WL
16'-0" WL
12'-0" WL
8'-0" WL
4'-0" WL
2'-0" WL
BILGE KEEL TRACE
SHELL TANGENCY AT DEADRISE
11
65
10
60
9
S05-00-03
A

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO. S05-00-03 GD NO. 30220-01 x2 FRAME 1 2 ③ 4

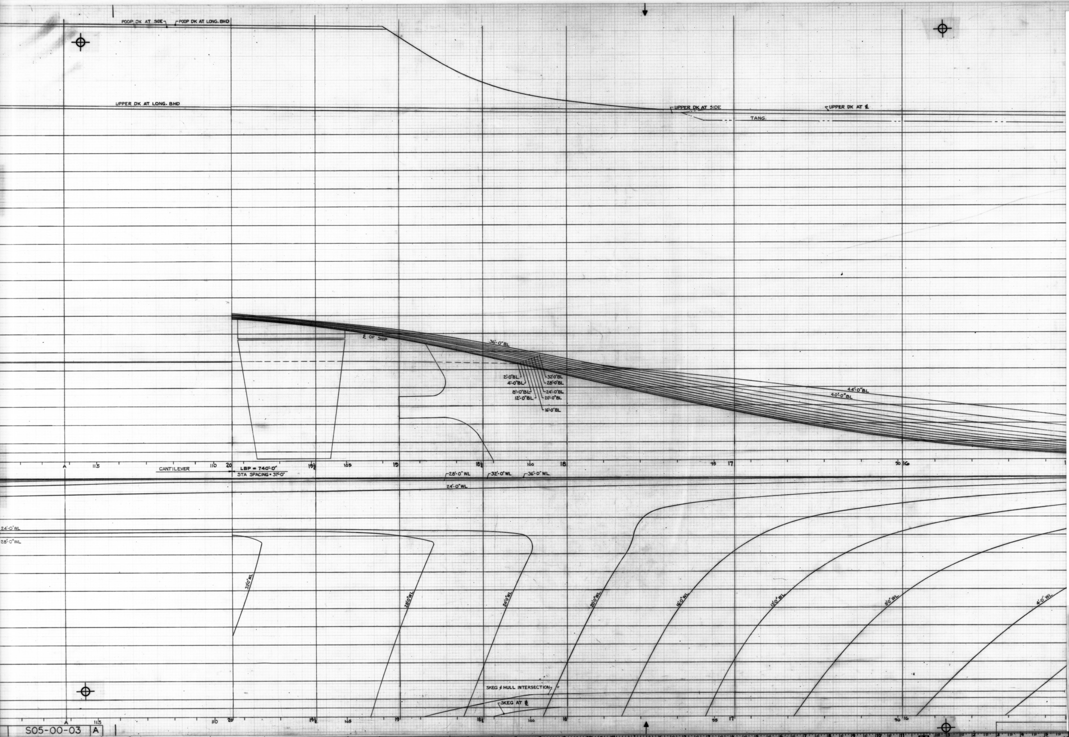
GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. S05-00-03 GD NO. 30220-01 x2 FRAME 1 2 3 ④


STATION "C" (POOP DK)
CANTILEVER AT STATION 20
NO TUMBLEHOME ABV UPPER DK
84'-0" WL
80'-0" WL
76'-0" WL
72'-0" WL
68'-0" WL
64'-0" WL
60'-0" WL
56'-0" WL
52'-0" WL
48'-0" WL
44'-0" WL
40'-0" WL
36'-0" WL
32'-0" WL
28'-0" WL
24'-0" WL
20'-0" WL
16'-0" WL
12'-0" WL
8'-0" WL
4'-0" WL
2'-0" WL
1' DEADRISE
UPPER DK STA 20
UPPER DK STA 10
TANG. OF 18" RADIUS
C
B
A
20
19½
19
18½
18
17
16
15
14
13
12
BL
90 16
15 85
14 80
13 75
12
70
44 40 36 32 28 24 20 16 12 8 4 2 ℄ 2 4
105'-10" MAXIMUM BEAM BEAM MOLDED
BILGE KEEL TRACE
BILGE KEEL TRACE
SHELL TANGENCY AT DEADRISE
8'-0" WL
4'-0" WL
2'-0" WL
90 16
15 85
14 80
13 75
12 70
11 65
10
S05-00-03 A

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. S05-00-03 GD NO. 30220-01 x2 FRAME 1 2 3 4 ⑤ 6 7

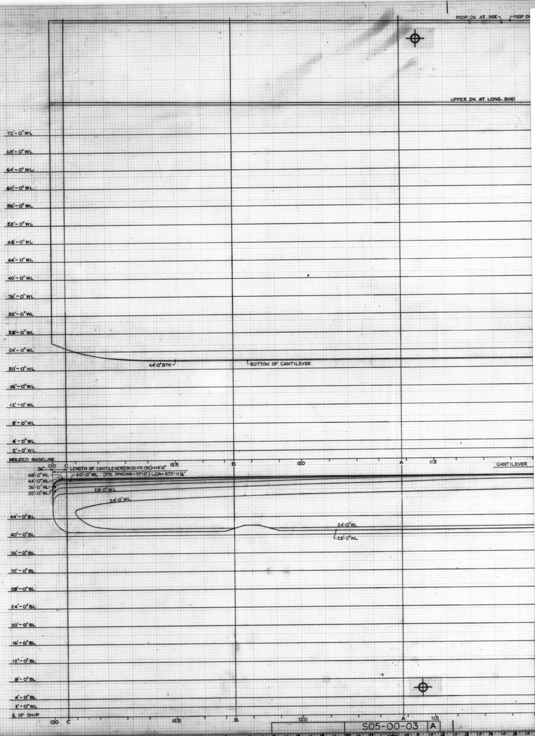


POOP DK AT SIDE
POOP DK AT LONG. BHD
UPPER DK AT LONG. BHD
UPPER DK AT SIDE
UPPER DK AT ℄
TANG.
℄ OF SHIP
36'-0" BL
2'-0" BL
4'-0" BL
8'-0" BL
12'-0" BL
32'-0" BL
28'-0" BL
24'-0" BL
20'-0" BL
16'-0" BL
44'-0" BL
40'-0" BL
A
115
CANTILEVER
110
20
LBP = 740'-0"
STA SPACING = 37'-0"
19½
105
19
18½
100
18
95
17
90
16
28'-0" WL
32'-0" WL
36'-0" WL
24'-0" WL
24'-0" WL
28'-0" WL
32'-0" WL
28'-0" WL
24'-0" WL
20'-0" WL
16'-0" WL
12'-0" WL
8'-0" WL
4'-0" WL
SKEG & HULL INTERSECTION
SKEG AT ℄

S05-00-03 | A

TABLE OF OFFSETS

EADTHS ON WATERLINES							HEIGHTS ON BUTTOCKS					BOTTOM TANGENT	KEEL HEIGHTS	DECK HALFBREADTHS			DECK HEIGHTS *=SIDE				STA
-0"	36'-0"	48'-0"	48'-0"	60'-0"	72'-0"	76'-0"	12'-0"	24'-0"	36'-0"	40'-0"	45'-0"			UPPER	MAIN	LOWER	UPPER ℄	UPPER *	MAIN	LOWER	
-6		5-0-5		10-7-1	20-0-6	21-4-11	63-3-4						31-0-0	19-1-8	5-7-7		71-1-4	71-1-4	49-7-4		0
-0		13-2-8		21-2-9	32-2-6	33-6-4	45-10-11	63-4-15					9-3-1	31-5-7	14-3-7		71-3-8	71-3-8	49-9-8		½
-2		20-2-1		29-9-14	40-7-11	41-10-10	34-6-12	52-10-15	67-0-3	71-3-13			4-4-0	40-0-6	21-9-4		71-5-11	71-4-0	49-11-11		1
-14		26-8-9		36-3-13	45-7-7	46-10-0	25-11-6	44-4-12	59-7-2	64-6-1			2-4-2	45-1-8	28-4-11		71-7-14	71-3-8	50-1-14		1½
-8		32-2-8		41-0-6	48-10-1	49-8-10	20-0-8	36-11-10	53-2-3	58-7-3			1-1-0	48-5-9	33-11-6	18-2-4	71-10-2	71-3-10	50-4-2	28-10-2	2
-4		40-1-7		46-6-12	51-7-4	51-10-4	12-3-13	26-1-13	41-6-10	47-9-5			0-0-1	51-5-5	41-8-11	26-7-9	72-2-9	71-6-12	50-8-9	29-2-9	3
-2		45-3-11		49-7-8	52-4-10	52-3-13	6-10-9	18-7-14	32-0-4	37-9-10			0-0-0	52-4-8	46-7-5	34-1-10	72-7-0	71-10-3	51-0-15	29-7-0	4
-6		48-11-2		51-6-13	52-5-10		3-2-0	12-4-2	24-8-15	29-10-6				52-5-8	49-10-7	40-0-13	72-11-7	72-2-9	51-5-7	29-11-7	5
-4		51-3-0		52-7-10			1-0-2	7-1-8	18-2-2	22-10-0		5-8-14		52-5-4	51-10-11	45-1-8	73-3-14	72-7-1	51-9-14	30-3-14	6
-14		52-4-1		52-10-13	↓	↓	0-2-11	3-3-5	11-11-4	16-5-8		12-5-15		52-5-0	52-6-12	48-7-11	73-8-5	72-11-9	52-2-5	30-8-5	7
-10		52-7-9		52-10-13	52-5-12	52-3-15	0-0-4	0-5-1	6-8-12	10-4-10		20-6-1			52-9-0	50-7-3	74-0-12	73-4-0	52-6-12	31-0-12	8
-6		52-9-8		52-10-15	52-5-14	↓		0-0-7	2-3-8	5-1-6		27-5-12			52-10-4	51-10-10	74-5-3	73-8-7	52-11-3	31-5-3	9
-11		52-10-7		↓	↓	52-4-1			0-4-6	1-8-5		32-10-6			52-10-15	52-6-11	74-9-10	74-0-14	53-3-10	31-9-10	10
-14		52-11-0		52-11-0	52-6-0				0-0-12	0-6-3		36-6-2			52-11-0	52-10-5	75-2-1	74-5-5	53-8-1	32-2-1	11
-0					52-6-3	↓	↓	↓	↓	0-2-13		37-10-13	↓			52-10-14	75-6-8	74-9-12	54-0-8	32-6-8	12
					↓	52-4-15	0-0-5	0-0-10	0-1-14	0-7-6			0-0-3			52-11-0	75-10-1	75-2-3	54-4-15	32-10-15	13
					52-6-10		0-4-2	0-9-1	1-11-10	2-10-13			0-2-13				76-3-6	75-6-10	54-9-6	33-3-6	14
					52-6-12	↓	2-0-11	3-3-14	5-8-7	7-2-10			1-1-11				76-7-13	75-11-1	55-1-13	33-7-13	15
					52-6-15	52-5-1	5-9-10	7-6-12	10-2-4	11-7-13			4-5-15				77-0-4	76-3-8	55-6-4	34-0-4	16
					52-7-1	52-5-4	11 11 9	13-6-15	15-10-4	16-9-7			10-8-10				77-4-11	76-7-15	55-10-11	34-4-11	17
					52-7-5	52-5-6	20-0-0	21-2-15	22-5-1	22-4-9			18-9-0				77-9-2	77-0-6	56-3-2	34-9-2	18
					↓	52-5-8	24-0-7	25-0-2	25-11-14	25-7-5			23-0-8				77-11-5	77-2-9	56-5-5	34-11-5	18½
					52-7-7	↓	27-6-8	28-2-8	28-11-1	28-3-15			26-10-3				78-1-9	77-4-13	56-7-9	35-1-9	19
					52-7-9	52-5-10	30-0-14	30-5-14	30-10-3	30-6-3			29-8-6				78-3-13	77-7-1	56-9-13	35-3-13	19½
↓	41-0-0		41-0-0		52-7-11	52-5-12	31-9-12	32-2-3	32-6-10	32-3-0			31-5-9			↓	78-6-0	77-9-4	57-0-0	35-6-0	20
-14											22-0-0					52-10-1	LONG. BHD 78-8-9	78-1-11	57-4-7	35-10-7	A
-15	↓		↓								↓					52-6-4	79-0-14	78-6-0	57-8-14	36-2-14	B
-10	42-7-3	↓	41-2-13	↓							24-10-3			↓	↓	51-1-10	↓ 79-10-8	78-10-8	58-1-5	36-7-5	C


POOP DK AT SIDE
POOP DK
UPPER DK AT LONG. BHD
72'-0" WL
68'-0" WL
64'-0" WL
60'-0" WL
56'-0" WL
52'-0" WL
48'-0" WL
44'-0" WL
40'-0" WL
36'-0" WL
32'-0" WL
28'-0" WL
24'-0" WL
20'-0" WL
16'-0" WL
12'-0" WL
8'-0" WL
4'-0" WL
2'-0" WL
MOLDED BASELINE
44'-0" BTK
BOTTOM OF CANTILEVER
130
C
125
B
120
A
115
CANTILEVER
36"
LENGTH OF CANTILEVER(STA 20-FR 130)=114'-0"
40'-0" WL (STA SPACING = 37'-0") LOA = 875'-11 1/4"
48'-0" WL
44'-0" WL
36'-0" WL
32'-0" WL
28'-0" WL
24'-0" WL
44'-0" BL
40'-0" BL
24'-0" WL
28'-0" WL
36'-0" BL
32'-0" BL
28'-0" BL
24'-0" BL
20'-0" BL
16'-0" BL
12'-0" BL
8'-0" BL
4'-0" BL
2'-0" WL
℄ OF SHIP
130
C
125
B
120
A
115

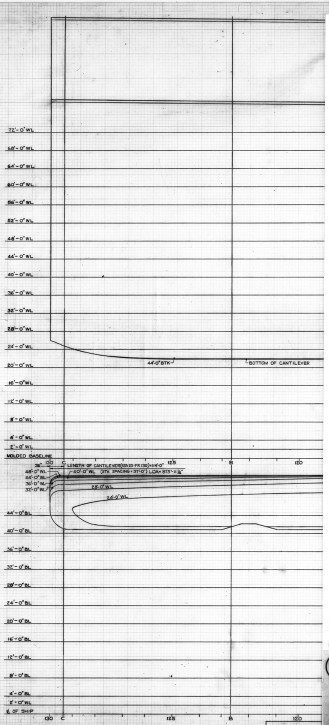
S05-00-03 A

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. S05-00-03 GD NO. 30220-01x2 FRAME 1 2 3 4
5 ⑥ 7

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. S05-00-03 GD NO. 30220-01 x2 FRAME 1 2 3 4 5 6 ⑦

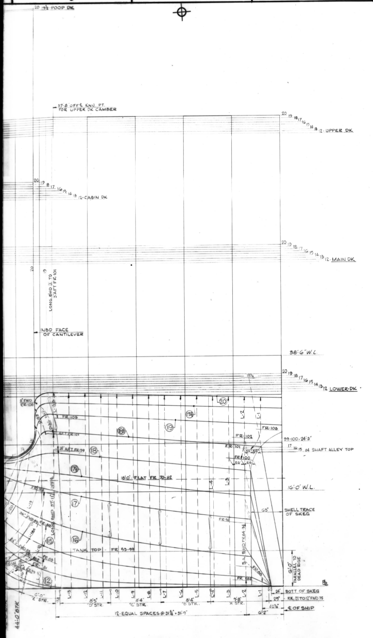
TABLE OF OFFSETS

STA	HALFBREADTHS ON WATERLINES											HEIGHTS ON BUTTOCKS					BOTTOM	KEEL	DECK HALFBREADTHS			DECK HEIGHTS *=SIDE				STA
	12'-0"	24'-0"	24'-0"	24'-0"	36'-0"	36'-0"	48'-0"	48'-0"	60'-0"	72'-0"	76'-0"	12'-0"	24'-0"	36'-0"	40'-0"	45'-0"	TANGENT	HEIGHTS	UPPER	MAIN	LOWER	UPPER ℄	UPPER *	MAIN	LOWER	
0	⧅	⧅	⧅	⧅	1-6-6	⧅	5-0-5	⧅	10-7-1	20-0-6	21-4-11	63-3-4	⧅	⧅	⧅	⧅	⧅	31-0-0	19-1-8	5-7-7	⧅	71-1-4	71-1-4	49-7-4	⧅	0
½	0-9-6	3-5-10	⧅	⧅	7-4-0	⧅	13-2-8	⧅	21-2-9	32-2-6	33-6-4	45-10-11	63-4-15	⧅	⧅	⧅	⧅	9-3-1	31-5-7	14-3-7	⧅	71-3-8	71-3-8	49-9-8	⧅	½
1	2-6-9	7-1-6	⧅	⧅	12-9-2	⧅	20-2-1	⧅	29-9-14	40-7-11	41-10-10	34-6-12	52-10-15	67-0-3	71-3-13	⧅	⧅	4-4-0	40-0-6	21-9-4	⧅	71-5-11	71-4-0	49-11-11	⧅	1
1½	4-6-7	10-11-3	⧅	⧅	18-1-14	⧅	26-8-9	⧅	36-3-13	45-7-7	46-10-0	25-11-6	44-4-12	59-7-2	64-6-1	⧅	⧅	2-4-2	45-1-8	28-4-11	⧅	71-7-14	71-3-8	50-1-14	⧅	1½
2	6-8-0	14-9-4	⧅	⧅	23-3-8	⧅	32-2-8	⧅	41-0-6	48-10-1	49-8-10	20-0-8	36-11-10	53-2-3	58-7-3	⧅	⧅	1-1-0	48-5-9	33-11-6	18-2-4	71-10-2	71-3-10	50-4-2	28-10-2	2
3	11-8-15	22-1-12	⧅	⧅	32-0-4	⧅	40-1-7	⧅	46-6-12	51-7-4	51-10-4	12-3-13	26-1-13	41-6-10	47-9-5	⧅	⧅	0-0-1	51-5-5	41-8-11	26-7-9	72-2-9	71-6-12	50-8-9	29-2-9	3
4	17-6-4	29-0-4	⧅	⧅	38-10-2	⧅	45-3-11	⧅	49-7-8	52-4-10	52-3-13	6-10-9	18-7-14	32-0-4	37-9-10	⧅	⧅	0-0-0	52-4-8	46-7-5	34-1-10	72-7-0	71-10-3	51-0-15	29-7-0	4
5	23-7-7	35-4-4	⧅	⧅	43-11-6	⧅	48-11-2	⧅	51-6-13	52-5-10	│	3-2-0	12-4-2	24-8-15	29-10-6	⧅	⧅	│	52-5-8	49-10-7	40-0-13	72-11-7	72-2-9	51-5-7	29-11-7	5
6	29-11-11	40-10-14	⧅	⧅	47-10-4	⧅	51-3-0	⧅	52-7-10	│	│	1-0-2	7-1-8	18-2-2	22-10-0	⧅	5-8-14	│	52-5-4	51-10-11	45-1-8	73-3-14	72-7-1	51-9-14	30-3-14	6
7	36-0-10	45-4-4	⧅	⧅	50-4-14	⧅	52-4-1	⧅	52-10-13	↓	↓	0-2-11	3-3-5	11-11-4	16-5-8	⧅	12-5-15	│	52-5-0	52-6-12	48-7-11	73-8-5	72-11-9	52-2-5	30-8-5	7
8	41-4-5	48-5-15	⧅	⧅	51-6-10	⧅	52-7-9	⧅	52-10-13	52-5-12	52-3-15	0-0-4	0-5-1	6-8-12	10-4-10	⧅	20-6-1	│	│	52-9-0	50-7-3	74-0-12	73-4-0	52-6-12	31-0-12	8
9	45-9-7	50-9-1	⧅	⧅	52-3-6	⧅	52-9-8	⧅	52-10-15	52-5-14	↓	│	0-0-7	2-3-8	5-1-6	⧅	27-5-12	│	│	52-10-4	51-10-10	74-5-3	73-8-7	52-11-3	31-5-3	9
10	49-3-4	52-0-4	⧅	⧅	52-8-11	⧅	52-10-7	⧅	↓	↓	52-4-1	│	│	0-4-6	1-8-5	⧅	32-10-6	│	│	52-10-15	52-6-11	74-9-10	74-0-14	53-3-10	31-9-10	10
11	51-9-13	52-8-14	⧅	⧅	52-10-14	⧅	52-11-0	⧅	52-11-0	52-6-0	│	│	│	0-0-12	0-6-3	⧅	36-6-2	│	│	52-11-0	52-10-5	75-2-1	74-5-5	53-8-1	32-2-1	11
12	52-6-8	52-11-0	⧅	⧅	52-11-0	⧅	│	⧅	│	52-6-3	↓	↓	↓	↓	0-2-13	⧅	37-10-13	↓	│	│	52-10-14	75-6-8	74-9-12	54-0-8	32-6-8	12
13	51-7-14	↓	⧅	⧅	│	⧅	│	⧅	│	↓	52-4-15	0-0-5	0-0-10	0-1-14	0-7-6	⧅	⧅	0-0-3	│	│	52-11-0	75-10-1	75-2-3	54-4-15	32-10-15	13
14	49-11-9	52-10-5	⧅	⧅	│	⧅	│	⧅	│	52-6-10	│	0-4-2	0-9-1	1-11-10	2-10-13	⧅	⧅	0-2-13	│	│	│	76-3-6	75-6-10	54-9-6	33-3-6	14
15	46-10-9	52-5-13	⧅	⧅	│	⧅	│	⧅	│	52-6-12	↓	2-0-11	3-3-14	5-8-7	7-2-10	⧅	⧅	1-1-11	│	│	│	76-7-13	75-11-1	55-1-13	33-7-13	15
16	40-9-7	51-11-6	⧅	⧅	│	⧅	│	⧅	│	52-6-15	52-5-1	5-9-10	7-6-12	10-2-4	11-7-13	⧅	⧅	4-5-15	│	│	│	77-0-4	76-3-8	55-6-4	34-0-4	16
17	12-7-8	51-4-7	⧅	⧅	│	⧅	│	⧅	│	52-7-1	52-5-4	11 11 9	13-6-15	15-10-4	16-9-7	⧅	⧅	10-8-10	│	│	│	77-4-11	76-7-15	55-10-11	34-4-11	17
18	⧅	50-10-13	⧅	⧅	│	⧅	│	⧅	│	52-7-5	52-5-6	20-0-0	21-2-15	22-5-1	22-4-9	⧅	⧅	18-9-0	│	│	│	77-9-2	77-0-6	56-3-2	34-9-2	18
18½	⧅	50-6-10	41-0-0	10-3-13	│	⧅	│	⧅	│	↓	52-5-8	24-0-7	25-0-2	25-11-14	25-7-5	⧅	⧅	23-0-8	│	│	│	77-11-5	77-2-9	56-5-5	34-11-5	18½
19	⧅	50-3-0	41-3-15	⧅	│	⧅	│	⧅	│	52-7-7	↓	27-6-8	28-2-8	28-11-1	28-3-15	⧅	⧅	26-10-3	│	│	│	78-1-9	77-4-13	56-7-9	35-1-9	19
19½	⧅	50-0-10	41-6-0	⧅	│	⧅	│	⧅	│	52-7-9	52-5-10	30-0-14	30-5-14	30-10-3	30-6-3	⧅	⧅	29-8-6	│	│	│	78-3-13	77-7-1	56-9-13	35-3-13	19½
20	⧅	49-10-11	41-7-3	⧅	↓	41-0-0	│	41-0-0	│	52-7-11	52-5-12	31-9-12	32-2-3	32-6-10	32-3-0	⧅	⧅	31-5-9	│	│	↓	78-6-0	77-9-4	57-0-0	35-6-0	20
A	⧅	49-4-7	│	⧅	52-9-14	│	│	│	│	⧅	⧅	⧅	⧅	⧅	⧅	22-0-0	⧅	⧅	│	│	52-10-1	LONG. BHD 78-8-9	78-1-11	57-4-7	35-10-7	A
B	⧅	48-8-2	↓	⧅	52-5-15	↓	│	↓	│	⧅	⧅	⧅	⧅	⧅	⧅	↓	⧅	⧅	│	│	52-6-4	79-0-14	78-6-0	57-8-14	36-2-14	B
C	⧅	⧅	⧅	⧅	51-9-10	42-7-3	↓	41-2-13	↓	⧅	⧅	⧅	⧅	⧅	⧅	24-10-3	⧅	⧅	↓	↓	51-1-10	↓ 79-10-8	78-10-8	58-1-5	36-7-5	C


72'-0" WL
68'-0" WL
64'-0" WL
60'-0" WL
56'-0" WL
52'-0" WL
48'-0" WL
44'-0" WL
40'-0" WL
36'-0" WL
32'-0" WL
28'-0" WL
24'-0" WL
20'-0" WL
44'-0" BTK
BOTTOM OF CANTILEVER
16'-0" WL
12'-0" WL
8'-0" WL
4'-0" WL
2'-0" WL
MOLDED BASELINE
130
C
125
B
120
36"
LENGTH OF CANTILEVER (STA 20-FR 130) = 114'-0"
48'-0" WL
44'-0" WL
36'-0" WL
32'-0" WL
40'-0" WL (STA SPACING = 37'-0") LOA = 875'-11¼"
28'-0" WL
24'-0" WL
44'-0" BL
40'-0" BL
36'-0" BL
32'-0" BL
28'-0" BL
24'-0" BL
20'-0" BL
16'-0" BL
12'-0" BL
8'-0" BL
4'-0" BL
2'-0" WL
℄ OF SHIP

S05-00-03 A

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S5-00-04 GD NO. 30220-01×3 FRAME ① 2 3 4



20 19½ POOP DK
57'-8" OFF ℄ KNU. PT FOR UPPER DK CAMBER
20 19 18 17 16 15 14 13 12 - UPPER DK
20 19 18 17 16 15 14 13 12 - CABIN DK
20 19 18 17 16 15 14 13 12 - MAIN DK
LONG. BHD ⊥ TO 5'AFT FR 101
INBD FACE OF CANTILEVER
38'-6" W.L.
20 19 18 17 16 15 14 13 12 LOWER DK
5' EWD FR 106
FR 105
AFT FR 101
FR 103
FR 102
99-100-24'-3"
17 16 15 84 SHAFT ALLEY TOP
FR 101
FR 100
18'-0" FLAT FR 70-82
16'-0" W.L.
SHELL TRACE OF SKEG
TANK TOP - FR 53-99
6'-0" PARALLEL TO DEAD RISE
BOTT OF SKEG
R.K. ⊥ TO 12" FWD 75
℄ OF SHIP
'E' STR.
'D' STR.
'C' STR
'B' STR.
'A' STR.
12 EQUAL SPACES @ 31⅞" = 31'-9"
44'-0" 87K

REVISIONS			Q DIV		M A		OWNER	
ZONE	LTR		DATE	APPD	DATE	APPD	DATE	APPD

REVISIONS				Q DIV		M A		OWNER	
ZONE	LTR		BY	DATE	APPD	DATE	APPD	DATE	APPD
	A	PLAN APPROVED BY J.J. HENRY LETTER FILE: 5589/S11/AHS-216-69 DATED JULY 11, 1969	KB	7/?/69		—	—	LTR 7/11/69	970

PRINT DISTRIBUTION

REVISION	O	A	B	C
TO				
LYKES				
MA (WASH)				
MA (YARD)		1		
JJ HENRY (HOME)				
JJ HENRY (YARD)		1		
ABS YD		1		
USCG		1		
USPHS				
871		6		
872		1		
873				
874		1		
875				
876		1		
TPS 86L		1		
899L		1		
TOTAL NRO'S FS		15		
TOTAL NRO'S HS				
Z				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212 not issued to trades	A	7-25-9	800		
			820		
			826		
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIB		
		HP	920	5	
		Loud	820	1	
		Drs...	LYKE	1	
		...Blo...	25F	0	
			TOTAL	7	

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

GENERAL NOTES

MA HULL NO	Q DIV HULL NO	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

MICROFILMED
A 5-17-73
A 11-8-73

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC
DESIGN B5-L-M3

NO	TITLE	Q DIV DWG NO	MA DWG NO
2			
1			

REFERENCES

Q DIV DWG NO 30220-01X3	GENERAL DYNAMICS QUINCY DIVISION QUINCY, MASS 02169
DFTMN G.McL. DSGNR E.R. SUPV ENGR M.L.	AFT BODY PLAN FOR LOFTING

APPROVED DATE	CODE IDENT NO	MARITIME ADMINISTRATION NO	REV
6/9/69 FOR GENERAL DYNAMICS QUINCY DIVISION	25316	241-S5-00-04	A
APPROVAL LTR DATED ABS Not Req. USCG Not Req. USPHS Not Req.	SCALE:	SHEET	

REV	Q DIV CONTR CHG NO	M A	CONTR CHG APPLIC

REV	Q DIV CONTR CHG NO	M A	CONTR CHG APPLIC

AREA ______ SQ FT

Q DIV DWG NO 30220-01×3

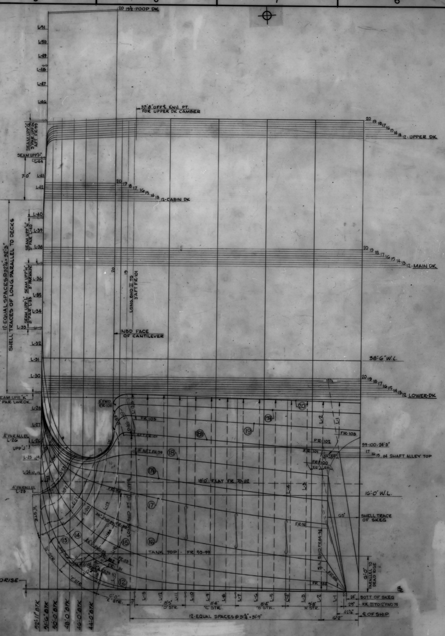
DWG NO 30220-01×3

MA DWG NO 241-S5-00-04 AFT BODY PLAN FOR LOFTING

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO.241-55-00-04 GD NO.30220-01 ×3 FRAME 1 ② 3 4

REVISIONS		Q DIV		M A		OWNER		
ZONE	LTR	DATE	APPD	DATE	APPD	DATE	APPD	ZONE LTR
								A



20 19½ POOP DK
L-51
L-50
L-49
L-48
L-47
L-46
37'-8" OFF ℄ KNU. PT. FOR UPPER DK CAMBER
SEAM UPP "Q" 3" PAR. UPP DK AFT FR-99
20 19 18 17 16 15 14 13 12-UPPER DK
SEAM UPP "P"
L-44
7'-0"
L-43
L-42
20 19 18 17 16 15 14 13 12-CABIN DK
L-40
L-39
L-38
SEAM UPP "N" 3" PAR L-40
20 19 18 17 16 15 14 13 12-MAIN DK
12-EQUAL SPACES @ 32¼" = 32'-3"
SHELL TRACES OF LONG. PARALLEL TO DECKS
SEAM UPP "M" 3" PAR. MN DK
SEAM UPP "L" 3" PAR. L-33
L-36
L-35
L-34
L-33
L-32
L-31
L-30
20
19
LONG. BHD Ⅲ TO 3' AFT FR-101
INBD FACE OF CANTILEVER
38'-6" W.L.
18½
20 19 18 17 16 15 14 13 12-LOWER-DK
SEAM UPR "K" 3" PAR. LWR DK.
L-28
L-27
4" PARALLEL L-26
L-26
UPP "J"
L-25
L-24
4" PARALLEL L-23
3" FWD FR-106
FR-103
AFT FR-101
24" AFT FR-99
⑳
⑲½
⑲
⑱½
⑱
⑰½
⑰
⑯
⑮
⑭
⑬
⑫
L-2
L-1
FR-103
FR-102
FR-101
FR-100
EQ
99-100-24'-3"
17 16 15 84 SHAFT ALLEY TOP
18'-0" FLAT FR 70-82
16'-0" W.L.
FR-98
FR-96
LONG BHD 37'-11" OFF ℄
L-19
L-20
L-21
L-22
L-23
L-18A
L-18
L-17
L-16
L-15
36" FWD 89
FR-89
24" FWD 83
FR-83
FR-81
FR-79
MARGIN
TANK TOP - FR 53-99
SHELL TRACE OF SKEG
63"
S.A. BHD FR 84-94
FR-88
FR 84
6'-0" PARALLEL TO DEAD RISE
1" DEADRISE
"H" STR.
"G" STR.
"F" STR.
"E" STR.
6'-0"
L-13
L-12
L-11
L-10
L-9
L-8
L-7
L-6
L-5
L-4
L-3
8'-5" 'D' STR.
8'-4" 'C' STR.
8'-4" 'B' STR.
9'-8" 'A' STR.
24" BOTT OF SKEG
29" FR. 00 TO 12' FWD 75
42¾" ℄ OF SHIP
12-EQUAL SPACES @ 31¾" = 31'-9"
6'-2"
52'-11" BTK
51'-6" BTK
50'-0" BTK
48'-0" BTK
46'-0" BTK
44'-0" BTK

GENERAL NOTES

REVISION	O
TO	
LYKES	
MA (WASH)	
MA (YARD)	
JJ HENRY (HOME)	
JJ HENRY (YARD)	
ABS YD	
USCG	
USPHS	
871	
872	
873	
874	
875	
876	
TPS 866	
849 L	
TOTAL NRO'S FS	
TOTAL NRO'S HS	
TOTAL Z	

O	A	B

243
242
241
MA HULL N

NO	TITLE	Q DIV DWG NO	M A DWG NO
2			
1			

REFERENCES

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC

M

LYK

Q DIV DWG

30220-0

DFTMN G.M

DSGNR

SUPV

ENGR M

APPROVED

FOR GENERAL D

QUINCY DIV

APPROVAL LTR

ABS

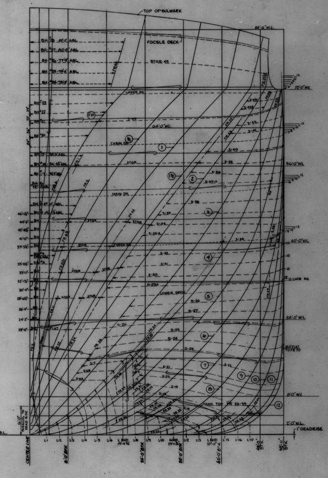
USCG

USPHS

GENERAL DYNAMICS, QUINCY NOV, 1973 10X
MA NO.241-S5-00-05 GD NO. 30220-01x4 FRAME ① 2 3 4

REVISIONS		Q DIV		M.A.		OWNER	
ZONE	LTR	DATE	APPD	DATE	APPD	DATE	APPD

REVISIONS			Q DIV		M.A.		OWNER	
ZONE	LTR		DATE	APPD	DATE	APPD	DATE	APPD
	A	1. PLAN APPROVED BY J.J. HENRY LETTER FILE: 5589/S11/AHS-216-69 DATED JULY 11,1969			–	–	LTR DTD 7/11/69	



TOP OF BULWARK
84'-6" W.L.
FOCSLE DECK
STGR 43
UPPER DK.
72'-0" W.L.
64'-0" W.L.
CABIN DK.
56'-0" W.L.
STGR
MAIN DK.
40'-0" W.L.
LOWER DECK
11-LWR DK
24'-0" W.L.
FLAT
6'-0" W.L.
2'-0" W.L.
1" DEADRISE
TANK TOP FR 55-99
B.L.
CENTER LINE
L1
L2
L3
L4
L5
L6
L.BHD
L8
L9
L10
L11
L12
L13
L.BHD
L15
L16
L17
8'-0" BTK

GENERAL NOTES

PRINT DISTRIBUTION										
REVISION	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO					30212 not issued	A	4-24-9	800		
LYKES								820		
MA (WASH)								826		
MA (YARD)		/						829		
JJ HENRY (HOME)								830		
JJ HENRY (YARD)		/						841		
ABS/P		/						842		
USCG		/						843		
USPHS								844		
								899		
								LIB		
							HP	970	5	
							Lord	960	1	
871		6					Docking	LYKES	1	
872		1					L-Black	195	0	
873										
874		1								
875										
876		1								
TPS 866		1								
899L		1								
TOTAL NRO'S FS		15								
TOTAL NRO'S HS										
TOTAL 2								TOTAL	7	

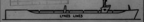
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

MA HULL NO	Q DIV HULL NO	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

A 5-10-73



LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC
DESIGN B5-L-M3

NO	TITLE	Q DIV DWG NO	MA DWG NO
2			
1			

REFERENCES

Q DIV DWG NO 30220-01x4

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY, MASS 02169

DFTMN G.M.L.
DSGNR R.E.
SUPV
ENGR M.K.

FWD BODY PLAN
FOR LOFTING

APPROVED DATE 6/9/69
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO	MARITIME ADMINISTRATION NO	REV
25316	241-S5-00-05	A

SCALE: 1/4" = 1'-0" SHEET 1 OF 1

APPROVAL LTR DATED
ABS NOT REQD
USCG NOT REQD
USPHS NOT REQD

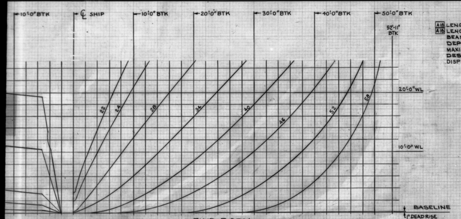
REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC

AREA 9.5 SQ FT

MA DWG NO 241-S5-00-05 FWD BODY PLAN FOR LOFTING Q DIV DWG NO 30220-01x04

DWG NO 30220-01x04


10'-0" BTK
℄ SHIP
10'-0" BTK
20'-0" BTK
30'-0" BTK
40'-0" BTK
50'-0" BTK
52'-11" BTK
20'-0" WL
10'-0" WL
22
26
28
34
40
46
52
58
BASELINE
1" DEADRISE

BODY PLAN A5
FR. LINES TAKEN AT BHDS.
$\frac{1}{4}$"=1'-0"

FWD BODY

PRINCIPAL DIMENSIONS

A18	LENGTH OVERALL	875'-11$\frac{1}{4}$"
A18	LENGTH BETWEEN PERPENDICULARS	740'-0"
	BEAM, MOLDED (MAXIMUM)	105'-10"
	DEPTH TO UPPER DK AT SIDE AMIDSHIPS	74'-9$\frac{5}{8}$"
	MAXIMUM DRAFT (FULL LOAD OF BARGES & CONSUMABLES)	32'-8"
	DESIGNED DRAFT AT BOTTOM OF KEEL	31'-0"
	DISPLACEMENT IN SEA WATER AT DESIGNED DRAFT	41,240 TONS

REVISIONS

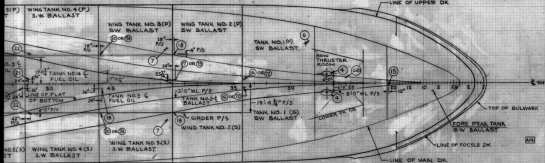
ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
		REV "O" APPROVED BY J. J. HENRY CO., INC LTR FILE: 5589/57/JUM-5-71 DATED JANUARY 11, 1971.	MG 3/10/71				27 MAY 1971	
23F'	A	1. OUTBD PROFILE, 23-F, ADDED TO INDICATE LT & DEEP LOADLINES & SQUARE FOOTAGE OF BOTTOM, BOOTTOPPING & HULL UP TO RAIL.						
13A' 16A'		2. OUTLINE OF PROPELLER, 16-A, ADDED & CLEARANCE OF PROPELLER ABOVE B L REVISED IN PROFILE VIEW TO SUIT.						
3B^2, 4E^2		3. GEN NOTE 1 & 2 ADDED & REF 1 & 2 ADDED TO SUIT.						
10C' 20E^6		4. BLEEDER PLUGS IN COFFERDAMS ADDED IN PLAN VIEW & TABLE OF SHELL OPENINGS.						
7F'		5. DEADRISE INDICATED IN BODY PLAN.						
13C'		6. EXTENT OF STEERING GEAR ROOM & WING TANK #11, P&S, CORRECTED & COFFERDAM FR 107-109 INDICATED DR.TK., FR 70-70$\frac{1}{2}$, P INDIC. IN PLAN VIEW.						

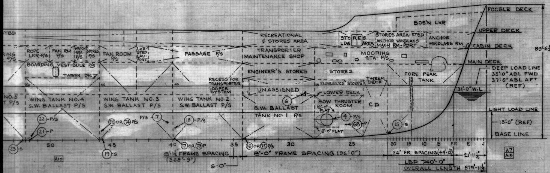
REVISIONS CONT IN PANEL 3

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
4A' 15G'	A (CONT)	7. LT LOAD LINE CORR. TO 18'-0" (WAS 19'-0") IN PROFILE VIEW & ENTRY ADDED TO DISPLACEMENT TABLE TO SUIT.						
20C^4, 20D^{14} 20E^8 20F^{14} 20G^{14} 20H^6		8. TABLE OF SHELL OPENINGS GENERALLY REVISED & CORR. TO SUIT LATEST PLANS; PROFILE & PLAN VIEW REVISED TO SUIT: FUNCTION OF SHELL OPENINGS IDENTIFIED IN TABLE & LOCATIONS IN RELATION TO FRAMES CLARIFIED.						
VARIOUS		9. COMPARTMENTS IN PROFILE & PLAN VIEWS GENERALLY REVISED & CORRECTED TO SUIT LATEST COMPT. & ACCESS PLANS.						
8A' 10A'		10. IN PROFILE VIEW, SIDE PORTS INDICATED IN WAY OF F.O. FILLING STA. & BOARDING VESTIBULE.						
13C'		11. RUDDER HORN INDICATED IN PLAN VIEW.						
14C'		12. IN PROFILE VIEW, ACCESS OPENINGS TO BARGE ELEVATORS INDICATED.						
4D', 16E'		13. DOCKING CYCLE TABLE COMPLETED & G.N. #3 ADDED.						
15E'		14. IN PLAN VIEW, EXTENT OF ELEVATOR PLATFORM INDICATED.						
13G'		15. IN SECT. AT FR 72, TABLE OF LOCATION OF DOCKING BRKTS & FLOORS ADDED.						
14A' 14C'		16. OUTLINE OF CANTILEVER AREA CORRECTED IN PROFILE & PLAN VIEW.						
12A'		17. IN PROFILE VIEW, EXTENT OF SHAFT REMOVAL AREA INDICATED.						
4A' 5H^2		18. IN PROFILE VIEW, LENGTH FWD OF FP ADDED & L.O.A. REVISED. TABLE OF PRINCIPAL DIMENSIONS REVISED TO SUIT.						
4D'		19. IN PLAN VIEW, LINE OF FOCSLE DK & TOP OF BULWARK ADDED. SOURCE: ITEMS 1, 2, 3 & 4; J.J. HENRY APPL LTR DATED 1-11-71 ITEMS 5 & 6; CORRECTIVE ACTION. ITEMS 7 THRU 17; IRM REPLY BY YARD REP. OF J. J. HENRY CO., INC., DATED 2-21-71. ITEMS 18 & 19; DES. DEV.						
15A', 15C' 20C', 20G'	B	1. BLEEDER PLUG FWD OF FR 128, P&S, ADDED IN LIST OF SHELL OPENINGS & INDICATED IN PLAN & EL. VIEW. DIA. OF ALL BLEEDER PLUG OPNGS CORR TO ACT. DIA.	MG 12/2/71				APPROVED ON IRM - 12/8/71	
9A', 10C' 20B^4, 20C^6 20E^2, 20F^5 20G^3		2. IN LIST OF SHELL OPENINGS, ITEM NO. 16, 17, 20, 26, 27, 29, 30, 34, 38 & 39 MADE APPLIC. TO LYKES 18 ONLY & ITEM NO. 72 THRU 81 ADDED FOR LYKES 19 & 20. PLAN & ELEVATION VIEWS REV. TO SUIT. SOURCE: ITEM 1, REV 'G' ON PLAN 30652-01X1. ITEM 2, REV 'H' & 'J' ON PLAN 30652-01X1						

REVISIONS	O	A	B	C
TO		6/1/71	12/9/71	
LYKES N/O		1	1	
M.A.(WASH)		1	1	
M.A.(YARD)		1	1	
J.J.HENRY(YARD)		1	1	
J.J.HENRY(HOME)		2	2	
ABS Yd		1	1	
USCG Yd		1	1	
USPHS		–		
871		8	4	
872				
873				
874				
875				
876				
L.A. 840-108		1	1	
866			1	
TOTAL NRO'S FS				
TOTAL NRO'S HS		17	14	
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A B	6-1-71 12-9-71	800		4
			820		5
			826		12
			829		
			830		7
			841		
			842		
			843		
			844		3
			899		
			LIBRARY		3
			828		1
			835		1
			812		1
		Schaefer	812		2
					1
			TOTAL		41


LINE OF UPPER DK
WING TANK NO. 4 (P)
S.W. BALLAST
WING TANK NO. 3 (P)
SW BALLAST
WING TANK NO. 2 (P)
SW BALLAST
TANK NO. 1 (P)
SW BALLAST
BOW THRUSTER ROOM
TANK NO. 4 ℄
FUEL OIL
TANK NO. 3 ℄
FUEL OIL
TANK NO. 2-℄
BALLAST
TANK NO. 1 (S)
SW BALLAST
LINE OF FLAT OF BOTTOM
GIRDER P/S
LOWER DK P/S
2'-0" W.L. P/S
8'-0" WL P/S
19'-4$\frac{3}{4}$" P/S
6'-0"
18" P/S
4" P/S
5" P/S
42" P/S
WING TANK NO. 2 (S)
WING TANK NO. 3 (S)
S.W. BALLAST
WING TANK NO. 4 (S)
S.W. BALLAST
NO. 5 (S)
TOP OF BULWARK
FORE PEAK TANK
SW BALLAST
LINE OF FOCSLE DK
LINE OF MAIN DK
℄ SHIP
50
45
35
30
25
20
15
10
5
FR
E
J
A19


FOCSLE DECK
BOS'N LKR
UPPER DECK
CABIN DECK
MAIN DECK
RECREATIONAL & STORES AREA
STORES LDG
RES AREA
STORES AREA-STBD
ANCHOR WINDLASS MACH RM-PORT
ANCHOR WINDLASS RM
ROPE LKR-P/S
FAN RM P/S
WATCH STA P/S
STORES P/S
FAN ROOM P/S
LKR-STBD LAV-PORT
PASSAGE P/S
TRANSPORTER MAINTENANCE SHOP
MOORING STA-P/S
BOARDING VESTIBULE P/S
TWEEN DK
ENGINEER'S STORES
STORES
RECESS FOR TRANSPORTER LOOPER SYSTEM
UNASSIGNED
ENGINEERS' STORES
TWEEN DECK
LOWER DECK
FORE PEAK TANK
WING TANK NO. 4
S.W. BALLAST P/S
WING TANK NO. 3
S.W. BALLAST P/S
WING TANK NO. 2
S.W. BALLAST P/S
S.W. BALLAST
TANK NO. 1 P/S
BOW THRUSTER ROOM
18'-0" FLAT
8'-0" FLAT
C D
DEEP LOAD LINE
35'-0" ABL FWD
37'-0" ABL AFT
(REF)
31'-0" W.L
LIGHT LOAD LINE
18'-0" (REF)
BASE LINE
89'-6$\frac{1}{4}$"
8'-1$\frac{1}{2}$" FRAME SPACING (568'-9")
8'-0" FRAME SPACING (96'-0")
24" FR SPACING (44'-0")
21'-11$\frac{1}{4}$"
6'-0"
LBP 740'-0"
OVERALL LENGTH 875'-11$\frac{1}{4}$"
A10
A7
A18

241-S07-00-01	B	2

GENERAL NOTES

A3 1. FOR PROPELLER & RUDDER HANDLING ARRANGEMENTS SEE REF. NO. 1

A3 2. FOR TAILSHAFT HANDLING ARRANGEMENT SEE REF. NO. 2.

A13 3. THE FOLLOWING ASSUMPTIONS HAVE BEEN MADE RELATIVE TO DRYDOCKING ON THE SUPPORT SYSTEM SHOWN ON THIS PLAN.

a) THE SHIP WILL BE DOCKED IN A RELATIVELY LIGHT CONDITION AT A DISPLACEMENT OF NOT MORE THAN 32000 LONG TONS. THIS WILL PERMIT THE ROLL STABILIZATION TANK TO BE AT OPERATING LEVEL AND SUFFICIENT FUEL OIL OR BALLAST FORWARD TO BRING THE SHIP TO EVEN KEEL. ALL OTHER TANKS SHOULD BE PUMPED TO LOW SUCTION.

b) THE TOTAL BILGE CRIB BEARING AREA WILL BE ABOUT 25% OF THE TOTAL KEEL BLOCK PROJECTED AREA.

c) THE MATERIAL USED FOR BOTH KEEL BLOCKS AND BILGE CRIBS WILL BE ADEQUATE TO SUPPORT AN AVERAGE LOADING OF 20 LONG TONS PER SQUARE FOOT.

d) DUE TO THE LONG OVERHANG AFT AND THE REQUIRED BALLAST FORWARD, THE BLOCK LOADINGS IN THESE AREAS MAY APPROACH 30 LONG TONS PER SQUARE FT. THE BLOCKING MATERIALS IN THESE AREAS SHOULD BE CAPABLE OF REDISTRIBUTING THIS LOAD WITHOUT CAUSING PROGRESSIVE FAILURE OF THE ENTIRE SUPPORT SYSTEM. IT SHOULD BE NOTED THAT THERE IS APPROXIMATELY 3000 LONG TONS OF SHIP CANTILEVERED AFT OF THE SKEG. IT SHOULD BE FURTHER NOTED THAT DUE TO THE FINENESS OF THE SHIP THERE IS LESS THAN FULL BEARING ON THE KEEL BLOCKS FORWARD OF FR 40.

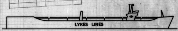
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G							

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
6 12-11-72

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
A3 2	LIFT. PAD & GR-SHAFT WITHDRAWAL-A&D	30725-06x1	241-543-01-05
A3 1	PROPELLER & RUDDER LIFTING PADS	30539-02x2	241-516-06-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO.
30251-02X1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN A.P. WILLIAMS
DSGNR WAD
SUPV
ENGR

DOCKING PLAN

APPROVED DATE 12-1-70
F. G. Rolfe
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS
USCG
USPHS

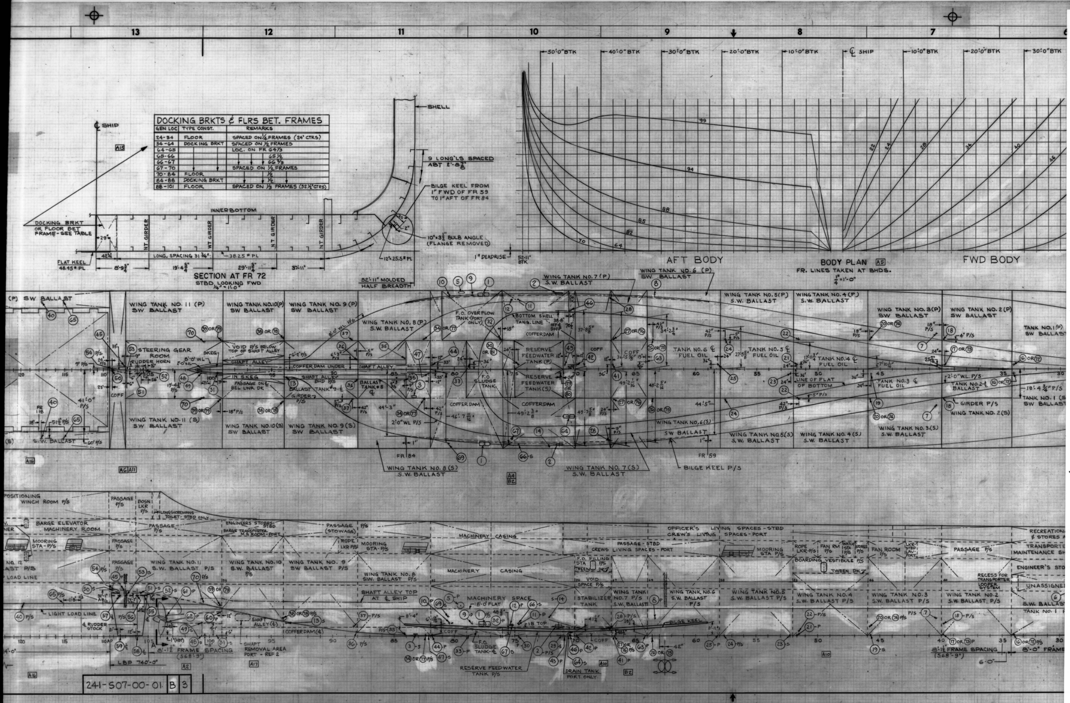
CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-507-00-01	B

SCALE 1/16"=1'-0" & AS NOTED SHEET 1 OF 1

AREA = 33 SQ FT

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO.241-507-00-01GD NO. 30251-02x1 FRAME 1 ② 3 4


13
12
11
10
9
8
7
℄ SHIP
A15
SHELL
9 LONG'LS SPACED ABT 2'-8 5/8"
BILGE KEEL FROM 1" FWD OF FR 59 TO 1" AFT OF FR 84
INNERBOTTOM
DOCKING BRKT OR FLOOR BET FRAME-SEE TABLE
NT GIRDER
WT GIRDER
WT GIRDER
NT GIRDER
10"x3 1/2" BULB ANGLE (FLANGE REMOVED)
12# 25.5# PL
FLAT KEEL 48.45# PL
LONG. SPACING 31 3/4"
38.25# PL
8'-9 3/4"
19'-4 3/4"
29'-11 3/4"
37'-11"
52'-11" MOLDED HALF BREADTH
1" DEADRISE
52'-11" BTK
SECTION AT FR 72
STBD. LOOKING FWD
1/2" = 1'-0"
-50'-0" BTK
-40'-0" BTK
-30'-0" BTK
-20'-0" BTK
-10'-0" BTK
℄ SHIP
-10'-0" BTK
-20'-0" BTK
-30'-0" BTK
99
94
88
85
82
70
64
22
24
28
34
40
46
AFT BODY
BODY PLAN A5
FR. LINES TAKEN AT BHDS.
1/4" = 1'-0"
FWD BODY
(P) SW BALLAST
WING TANK NO. 11 (P) SW. BALLAST
WING TANK NO.10(P) SW BALLAST
WING TANK NO. 9 (P) SW BALLAST
WING TANK NO. 8 (P) S.W. BALLAST
WING TANK NO. 7 (P) S.W. BALLAST
WING TANK NO. 6 (P) SW BALLAST
WING TANK NO. 5 (P) S.W. BALLAST
WING TANK NO. 4 (P) S.W. BALLAST
WING TANK NO. 3 (P) SW BALLAST
WING TANK NO. 2 (P) SW BALLAST
TANK NO. 1 (P) SW BALLAST
STEERING GEAR ROOM
RUDDER HORN
SKEG
VOID P/S BELOW TOP OF SHAFT ALLEY
SHAFT ALLEY
COFFERDAM UNDER SHAFT ALLEY
IN SKEG
PASSAGE ON BEL LWR DK
BALLAST TANK #9-℄
BALLAST TANK #8 ℄
GIRDER P/S
F.O. OVERFLOW TANK (PORT ONLY)
BOTTOM SHELL TANG. LINE
COFFERDAM
RESERVE FEEDWATER TANK (P)
RESERVE FEEDWATER TANK (S)
F.O. SLUDGE TANK
COFFER DAM
COFF
TANK NO. 6 ℄ FUEL OIL
TANK NO. 5 ℄ FUEL OIL
TANK NO. 4 ℄ FUEL OIL
TANK NO. 3 ℄ FUEL OIL
TANK NO. 2-℄ BALLAST
TANK NO. 1 (S) SW BALLAST
LINE OF FLAT OF BOTTOM
GIRDER P/S
WING TANK NO. 11 (S) SW BALLAST
WING TANK NO.10(S) SW BALLAST
WING TANK NO. 9 (S) SW BALLAST
WING TANK NO. 8 (S) S.W. BALLAST
WING TANK NO. 7 (S) S.W. BALLAST
WING TANK NO. 6 (S) SW BALLAST
WING TANK NO. 5 (S) SW BALLAST
WING TANK NO. 4 (S) SW BALLAST
WING TANK NO. 3 (S) SW BALLAST
WING TANK NO. 2 (S)
S.W. BALLAST
FR 84
FR 59
BILGE KEEL P/S
2'-0" WL P/S
5'-0" WL
8'-0" WL P/S
120
115
110
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
A16
A6 A11
A4 B2
POSITIONING WINCH ROOM P/S
PASSAGE P/S
BOSN LKR P/S
LONGSHOREMANS TOILET-STBD ONLY
BARGE ELEVATOR MACHINERY ROOM
MOORING STA-P/S
ENGINEERS STORES-STBD
BARGE TRANSPORTER M.A. ROOM-PORT
PASSAGE (STOWAGE) P/S
ROPE LKR P/S
MOORING STA-P/S
MACHINERY CASING
OFFICER'S LIVING SPACES-STBD
CREW'S LIVING SPACES-PORT
PASSAGE-STBD
CREWS LIVING SPACES-PORT
F.O. FILLING STA
TWEEN DK
VOID SPACE P/S
STABILIZER TANK
WING TANK NO. 7 S.W. BALLAST
WING TANK NO. 6 S.W. BALLAST P/S
WING TANK NO. 5 S.W. BALLAST P/S
WING TANK NO. 4 S.W. BALLAST P/S
WING TANK NO. 3 S.W. BALLAST P/S
WING TANK NO. 2 S.W. BALLAST P/S
MOORING STA P/S
ROPE LKR-P/S
FAN RM P/S
WATCH STA P/S
STORES P/S
FAN ROOM
LKR STBD LAV. PORT
BOARDING VESTIBULE P/S
TWEEN DK
PASSAGE P/S
RECREATION & STORES
TRANSPORTER MAINTENANCE SH
ENGINEER'S STO
RECESS FOR TRANSPORTER LOOPER SYSTEM
UNASSIGNE
S.W. BALLA
TANK NO. 1
NO. 12 AST P/S
LOAD LINE
WING TANK NO. 11 S.W. BALLAST P/S
WING TANK NO. 10 S.W. BALLAST P/S
WING TANK NO. 9 SW BALLAST P/S
WING TANK NO. 8 SW. BALLAST P/S
SHAFT ALLEY TOP AT ℄ SHIP
MACHINERY SPACE
18'-0 FLAT
MACHINERY CASING
LIGHT LOAD LINE
℄ RUDDER STOCK
SHAFT ALLEY (℄)
COFFERDAM (℄)
COFF
F.O. SLUDGE TANK-℄
IB TOP
COFF
BILGE KEEL
SHAFT REMOVAL AREA PORT - REF 2
RESERVE FEEDWATER TANK P/S
DRAIN TANK PORT ONLY
8'-1 1/2" FRAME SPACING (568'-9")
8'-1 1/2" FRAME SPACING (568'-9")
8'-0" FRAME
6'-0"
LBP 740'-0"
A2
A17
A10
B2
A10
A16

DOCKING BRKTS & FLRS BET. FRAMES

GEN LOC	TYPE CONST.	REMARKS
24-34	FLOOR	SPACED ON 1/4 FRAMES (24" CTRS)
34-64	DOCKING BRKT	SPACED ON 1/2 FRAMES
64-65	↓	LOC. ON FR 64 1/3
65-66	↓	65 1/2
66-67	↓	66 2/3
67-70	↓	SPACED ON 1/2 FRAMES
70-84	FLOOR	1/2
84-88	DOCKING BRKT	1/2
88-101	FLOOR	SPACED ON 1/3 FRAMES (32 1/2" CTRS)

241-507-00-01 B 3

20 19 18 17 16 15 14 13

-0"WL
EP L.LT FWD)
WL
OAD LINE)

SHELL OPENINGS

		NO.	SERVICE	SIZE	SIDE OF SHIP	BETWEEN FRAMES	HEIGHT ABV BASELINE OR DISTANCE OFF ℄ OF SHIP TO ℄ OF OPENING	DWG NO.	REMARKS
	A8	1	SEA CHEST - MN. CIRC WATER SUCT.	86 5/8"x50 1/2"	P & S	77 - 78	7'-9" ABV BL	30612x101 30613x101	2-PART STR
	A8	2	SEA CHEST - BALLAST SUCTION	49 1/4"x25"	P & S	71 - 72	6'-6" ABV BL	30602x101 30603x101	2-PART STR
	A8	3	SEA CHEST - FIRE PUMP #2 SUCTION	30 1/4"x11"	STBD	83 - 83 1/2	18'-0 7/8" OFF ℄	30701x101	
		4	BOW THRUSTER	8'-1" OD	P & S	26 1/2 - 28	13'-0" ABV BL	30201x109	
	A8	5	MN CIRC WATER OVBD	ELLIPTICAL 42"x46"	PORT	39" FWD 79	20'-6" ABV BL	30612x102	
	A8	6	GARBAGE DISPOSAL OPENING	ELLIPTICAL 18"x26"	PORT	24" FWD 29	30'-6 1/2" ABV BL	30656-22x1	
	A8	7	STUFFING TUBE - CATHODIC PROT.	3 1/16" DIA	P & S	49 1/2" FWD 41	11'-8 3/16" ABV BL	30313x105	
	A8	8			PORT	31 1/2" AFT 63	11'-10 1/16" ABV BL	30502x103	
	A8	9	SEA CHEST - AUX. S.W. OVBD	7 3/4" DIA	PORT	49 1/2" FWD 79	8'-2" ABV BL	30422-10x3	
	A8	10	SEA CHEST - STBY L.O. CLR. MN. CIRC OVBD	7 3/4" DIA	PORT	36" AFT 80	8'-10 1/2" ABV BL		
	A8	11	SEA CHEST - BOILER BLOW OVBD	4 5/8" DIA	PORT	54" AFT 74	7'-3" ABV BL		
	A8	12	- BALLAST OVBD	16 1/4" DIA	PORT	30" AFT 75	7'-2 13/16" ABV BL		
	A8	13	STUFFING TUBE - CATHODIC PROT.	3 1/16" DIA	STBD	6'-7 1/2" AFT 93	9'-0" ABV BL	30711x103	
	A8	14	SEA CHEST - SEWAGE OVBD	6 3/4" DIA	STBD	18" AFT 72	12'-6" ABV BL	30422-10x3	
B1	A8	15	BLEEDER PLUG - FORE PEAK TANK	1 1/2" IPS.	STBD	21 - 22	4'-6 1/2" ABV BL	30652-01x1	6'-5 3/8" ABV BL FOR LYKES 18 ONLY
B2	A8	16	- BALL. TK #1		P & S	18" FWD 34	33" OFF ℄		LYKES 18 ONLY
B2	A8	17	- BALL. TK #2, ℄		PORT	24" FWD 40	36" OFF ℄		
	A8	18	- BALL. TK #2, P/S		P & S	39 - 40	19'-8 3/4" OFF ℄		
	A8	19	- F.O. TK #3, ℄		STBD	45 - 46	36" OFF ℄		
B2	A8	20	- BALL. TK #3, P/S		P & S	18" FWD 46	19'-9 3/4" OFF ℄		LYKES 18 ONLY
	A8	21	- F.O. TK #4, ℄		PORT	51 - 52	36" OFF ℄		
	A8	22	- BALL. TK #4, P/S		P & S	51 - 52	19'-9 3/4" OFF ℄		
	A8	23	- F.O. TK #5, ℄		STBD	52 - 53	36" OFF ℄		
	A8	24	- BALL. TK #5, P/S		P & S	57 - 58	19'-9 3/4" OFF ℄		
	A8	25	- F.O. TK #6, ℄		PORT	58 - 59	36" OFF ℄		
B2	A8	26	- BALL. TK #6, P/S		P & S	42" FWD 64	19'-9 3/4" OFF ℄		LYKES 18 ONLY
B2	A8	27	- BALL. TK #7, P/S		P & S	24" FWD 67	19'-9 3/4" OFF ℄		
	A8	28	- STABILIZER TK, ℄		P & S	67 - 68	56 1/2" ABOVE BL		
B2	A8	29	- RES. FD. WATER TK, S		STBD	24" AFT 71	36" OFF ℄		LYKES 18 ONLY
B2	A8	30	- RES. FD. WATER TK, P		PORT	24" FWD 75	36" OFF ℄		
	A8	31	- SKEG		STBD	99 1/3 - 99 2/3	26" OFF ℄		ON ℄ FOR LYKES 18 ONLY
	A8	32	- F.O. OVFL. TK, P		PORT	76 - 76 1/2	19'-9 3/4" OFF ℄		
	A8	33	- F.O. SLUDGE TK, ℄		PORT	78 1/2 - 79	36" OFF ℄		
B2	A8	34	- BALL. TK #8, P/S		P & S	42" AFT 82	19'-9 3/4" OFF ℄		LYKES 18 ONLY
	A8	35	- BALL. TK #8, ℄		P & S	84 - 85	6'-11" OFF ℄		
	A8	36	- BALL. TK #9, ℄		P & S	88 - 88 1/2	6'-3" OFF ℄		
	A8	37	- BALL. TK #9, P/S		P & S	88 - 88 1/2	19'-9 3/4" OFF ℄		
B2	A8	38	- BALL. TK #10, P/S		P & S	5" AFT 94	21'-4 3/4" OFF ℄		LYKES 18 ONLY
B2	A8	39	- BALL. TK #11, P/S		P & S	18" AFT 99	19'-9 3/4" OFF ℄		
	A8	40	- BALL. TK #12, P/S		P & S	117 - 118	45'-3 1/2" OFF ℄		
	A4	41	- COFFERDAM		PORT	66 - 67	36" OFF ℄		
	A4	42				69 - 70	36"		
	A4	43				70 1/2 - 71	36"		
	A4	44				81 1/2 - 82	33"		
	A4	45				107 - 108	33"		
	A4	46	- DRAIN TK, P			70 - 70 1/2	38'-8" OFF ℄		12" OFF ℄ FOR LYKES 18 ONLY
	A8	47	- COFFERDAM		STBD	82 - 82 1/2	33" OFF ℄		
	A8	48	DRAIN PLUG - SKEG	1 1/2" IPS	STBD	100 2/3 - 101	3" ABV BL	30811x101	
	A8	49	FILL PLUG -		STBD	100 2/3 - 101	9'-1" ABV BL		
	A8	50	- RUDDER HORN		STBD	108 - 109	31'-1" ABV BL	30652-01x1 30821-101	
	A8	51			STBD	105 - 106	29'-2" ABV BL		
	A8	52	DRAIN PLUG		STBD	105 - 106	4" OFF ℄		
	A8	53			STBD	106 - 107	6" OFF ℄		
	A8	54	BLEEDER PLUG - TRANSOM		P&S	108 - 109	9" OFF ℄		
	A8	55	FILL PLUG - RUDDER		℄	105 - 106	℄ RUDDER & SHIP	30819-101	TOP OF RUDDER
	A8	56			P&S	105 - 106	28" OFF ℄		
	A8	57			℄	107 - 108	℄ RUDDER & SHIP		
	A8	58	DRAIN PLUG		℄	105 - 106	℄ &		BOT. OF RUDDER
	A8	59			℄	107 - 108	℄ &		
	A8	60	FILL PLUG - OUTER STERN TUBE		PORT	99 - 99 1/3	15° OFF TOP ℄ TO PORT	30811-101	
	A8	61			PORT	103 1/3 - 103 2/3	15° ℄		
	A8	62	DRAIN PLUG		PORT	103 1/3 - 103 2/3	15° BOT ℄		
	A8	63	TRANSDUCER	17 1/2" DIA	PORT	64 - 64 1/3	56" OFF ℄	30522-101	LOC. SUBJ. TO CHG FOR LYKES 20
	A8	64	SEA CHEST - STABILIZER FLOOD	88 1/8"x25"	STBD	70 - 71	31'-7 1/2" OFF ℄	30525-103	2-PART STR
	A8	65	SEA CHEST - ELEV. HYD. OIL CLR AUX. S.W. OVBD	3 5/8" DIA	P&S	115 - 116	46'-0" OFF ℄	30422-10x3	
	A8	66	SEA CHEST - OILY WASTE WATER OVBD	6 3/4" DIA	STBD	65" AFT 74	49'-10" OFF ℄		
	A8	67	SEA CHEST - TG CIRC WATER OVBD	20 1/8" DIA	STBD	20" AFT 75	7'-3 1/2" ABV BL		
	A8	68	STUFFING TUBE - CATHODIC PROT.	3 1/16" DIA	PORT	38" AFT 25	9'-6" ABV BL	30201-603	
	A8	69			STBD	48" AFT 80	12'-9" ABV BL	30613-605	
	A8	70			P&S	48" AFT 100	23'-0 1/2" ABV BL	30811-604	
	B1	71	BLEEDER PLUG - COFFERDAM	1 1/2" IPS	P&S	8" FWD 128	45'-0" OFF ℄	30652-01x1	
	B2	72	- BALLAST TK #1		P&S	14" FWD 34	29" OFF ℄		LYKES 19&20 ONLY
	B2	73	#2 ℄		PORT	24" FWD 40	31 1/2" OFF ℄		
	B2	74	#3		P&S	18" FWD 46	20'-2 3/4" OFF ℄		
	B2	75	#6		P&S	42" FWD 64	20'-2 3/4" OFF ℄		
	B2	76	#7		P&S	24" FWD 67	20'-2 3/4" OFF ℄		
	B2	77	#8		P&S	42" AFT 82	20'-2 3/4" OFF ℄		
	B2	78	#10		P&S	10" AFT 94	21'-2 1/2" OFF ℄		
	B2	79	#11		P&S	18" AFT 99	20'-2 3/4" OFF ℄		
	B2	80	RES. FD. WATER TK, STBD		STBD	24" AFT 71	39 1/2" OFF ℄		
	B2	81	PORT		PORT	24" FWD 75	39 1/2" OFF ℄		

GENERAL INFORMATION

HEIGHT ABV BL TO ℄ OF FWD ANCHOR LIGHT------122'-6"
HEIGHT ABV BL TO ℄ OF AFT RANGE LIGHT---------152'-3"
HEIGHT ABV BL TO TOP OF MAIN RADAR ANTENNA (ABT) 156'-9"
HEIGHT ABV BL TO TOP OF STACK-----------------120'-10 1/4"
HEIGHT ABV BL TO ℄ OF ANCHOR & STERN LIGHT-------106'-10"
WEIGHT OF RUDDER (EXCLUSIVE OF PINTLE & INTERIOR COATING------85,000#
WEIGHT OF PROPELLER (WITHOUT CAP)-------------------93,886#
WEIGHT OF PROPELLER TAIL SHAFT----------------------113,908#
WEIGHT OF LINE SHAFT SECTION #1--------------------61,088#
WEIGHT OF LINE SHAFT SECTION #2--------------------61,059#
WEIGHT OF LINE SHAFT SECTION #3--------------------41,186#
WEIGHT OF LINE SHAFT SECTION #4--------------------41,186#

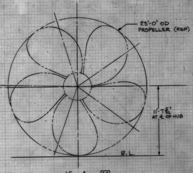
	DRAFT FROM BOTTOM OF KEEL	DISPLACEMENT TONS SALT WATER
	37'-0"	53030
	35'-0"	49020
	30'-0"	39320
	25'-0"	30170
	20'-0"	22140
	19'-0"	20690
A7	18'-0"	20 250

A13

DOCKING CYCLE

BASED ON 48" W. X 42" LONG BLOCKS SPACED ON 6'-0" CENTERS.
KEEL BLOCKS ARE NUMBERED FROM AFT, FORWARD WITH AFTER BLOCK AS № 1.

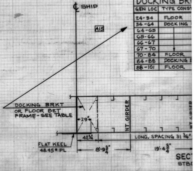
POSITION № 1			POSITION № 2			POSITION № 3		
BLOCK №.	LOCATION	BHD №	BLOCK №	LOCATION	BHD №	BLOCK №	LOCATION	BHD №
1	12'-6" AFT	99	1	14'-6" AFT	99	1	10'-6" AFT	99
3	6" AFT	99	3	30" AFT	99	3	18" FWD	99
10	10 1/2" FWD	94	10	13 1/2" AFT	94	10	34 1/2" FWD	94
18	1 1/2" FWD	88	18	22 1/2" AFT	88	18	25 1/2" FWD	88
26	7 1/2" AFT	82	26	31 1/2" AFT	82	26	16 1/2" FWD	82
42	25 1/2" AFT	70	43	22 1/2" FWD	70	42	1 1/2" AFT	70
50	34 1/2" AFT	64	51	13 1/2" FWD	64	50	10 1/2" AFT	64
59	28 1/2" FWD	58	59	4 1/2" FWD	58	58	19 1/2" AFT	58
67	19 1/2" FWD	52	67	4 1/2" AFT	52	66	28 1/2" AFT	52
75	10 1/2" FWD	46	75	34 1/2" FWD	46	75	13 1/2" AFT	46
83	1 1/2" FWD	40	83	25 1/2" FWD	40	83	22 1/2" AFT	40
91	18" FWD	34	91	6" AFT	34	90	30" AFT	34
99	18" FWD	28	99	6" AFT	28	98	30" AFT	28
						99	42" FWD	28

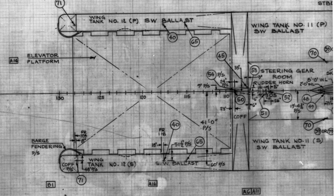

23'-0" OD
PROPELLER (REF)
11'-7 5/32"
AT ℄ OF HUB
B.L.

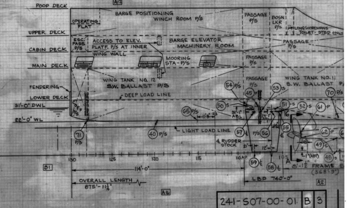
16-A A2
OUTLINE OF PROPELLER
1/4" = 1'-0"

DOCKING BR

GEN LOC	TYPE CONS
24-34	FLOOR
34-64	DOCKING
64-65	
65-66	
66-67	
67-70	
70-84	FLOOR
84-88	DOCKING
88-101	FLOOR


℄ SHIP
A15
DOCKING BRKT
OR FLOOR BET
FRAME - SEE TABLE
29"
42 1/4
NT GIRDER
WT GIRDER
LONG. SPACING 31 3/4"
FLAT KEEL
48.45# PL
8'-9 3/4"
19'-4 3/4"
SECT
STBD

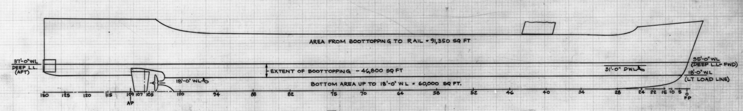

71
WING TANK NO. 12 (P) SW BALLAST
40
65
WING TANK NO. 11 (P) SW BALLAST
70
39
A14
ELEVATOR PLATFORM
45
33"
53
STEERING GEAR ROOM
54 P/S
24" P/S
9"
RUDDER HORN
15"
8'-0" WL
2'-0" WL
9" P/S
130
125
120
115
110
50
105
52
48
6"
56"
6"
49
23"
19'-4 3/4" P/S
51
COFF
70
39 OR 79
40
41'-0" P/S
FR 128
FR 118
8"
BARGE FENDERING P/S
18"
51 1/2" P/S
65
WING TANK NO. 11 (S) SW BALLAST
COFF P/S
48" P/S
WING TANK NO. 12 (S)
S.W. BALLAST
60" P/S
71
B1
A16
A6 A11


A12
POOP DECK
BARGE POSITIONING WINCH ROOM P/S
OPERATING FLAT
PASSAGE P/S
BOSN LKR P/S
LONGSHOREMANS TOILET - STBD ONLY
UPPER DECK
ESC. PASS. P/S
ACCESS TO ELEV. PLATF. P/S AT INNER WING WALL
BARGE ELEVATOR MACHINERY ROOM
PASSAGE P/S
CABIN DECK
MOORING STA - P/S
PASSAGE P/S
MAIN DECK
WING TANK NO. 12 S.W. BALLAST P/S
PASSAGE P/S
WING TANK NO. 11 S.W. BALLAST P/
FENDERING
LOWER DECK
DEEP LOAD LINE
54 P/S
45 P
53 S
70 P/S
31'-0" DWL
COFF P/S
50 S
31'-1" ABL
51 S
52 S
61 P
16
65 P/S
11'-8"
113
22'-0" WL
71 P/S
40 P/S
LIGHT LOAD LINE
57 ℄
P/S 56
55 ℄
62 P
℄ RUDDER STOCK
21"
12"
49 S
1" (ABT)
48 S
130
125
120
115
110 AP
105
59 ℄
58 ℄
A
8'-1 1/2" FRAME S
(568'-9")
B1
114'-0"
OVERALL LENGTH 875'-11 1/4"
LBP 740'-0"
A2
A16

241-S07-00-01	B	3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S07-00-01GD NO. 30251-02x1 FRAME 1 2 ③ 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-507-00-01GD NO. 30251-02x1 FRAME 1 2 3 ④


AREA FROM BOOTTOPPING TO RAIL = 91,350 SQ FT
37'-0" WL
DEEP L.L. (AFT)
EXTENT OF BOOTTOPPING - 46,800 SQ FT
18'-0" WL
BOTTOM AREA UP TO 18'-0' WL = 60,000 SQ FT.
31'-0" DWL
35'-0" WL
(DEEP L.L.- FWD)
18'-0" WL
(LT LOAD LINE)
130
125
120
115
109
107
105
AP
100
94
88
82
75
70
64
58
52
46
40
34
28
24
22
15
10
5
0
FP

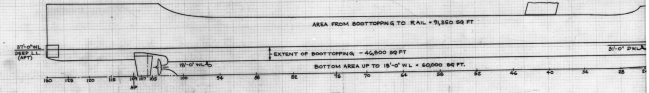
A1 23-F
SURFACE AREA OF HULL

SH

		NO.	SERVICE	SIZ
	A8	1	SEA CHEST - MN. CIRC WATER SUCT.	86⅝"x5
	A8	2	SEA CHEST - BALLAST SUCTION	49¼"x
	A8	3	SEA CHEST - FIRE PUMP #2 SUCTION	30¼"x
		4	BOW THRUSTER	8'-1" O
	A8	5	MN CIRC WATER OVBD	ELLIPTICA 42"x4
	A8	6	GARBAGE DISPOSAL OPENING	ELLIPTIC 19"x2
	A8	7	STUFFING TUBE - CATHODIC PROT.	3 1/16"
	A8	8		
	A8	9	SEA CHEST - AUX. S.W. OVBD	7¾" D
	A8	10	SEA CHEST - STBY L.O.CLR. MN. CIRC OVBD	7¾" D
	A8	11	SEA CHEST - BOILER BLOW OVBD	4⅝"
	A8	12	- BALLAST OVBD	16¼"
	A8	13	STUFFING TUBE - CATHODIC PROT.	3 1/16"
	A8	14	SEA CHEST - SEWAGE OVBD	6¾"
B1	A8	15	BLEEDER PLUG - FORE PEAK TANK	1½" IP
B2	A8	16	- BALL. TK #1	
B2	A8	17	- BALL. TK #2, ℄	
	A8	18	- BALL. TK #2, P/S	
	A8	19	- F.O. TK #3, ℄	
B2	A8	20	- BALL. TK #3, P/S	
	A8	21	- F.O. TK #4, ℄	
	A8	22	- BALL. TK #4, P/S	
	A8	23	- F.O. TK #5, ℄	
	A8	24	- BALL. TK #5, P/S	
	A8	25	- F.O. TK #6, ℄	
B2	A8	26	- BALL. TK #6, P/S	
B2	A8	27	- BALL. TK #7, P/S	
	A8	28	- STABILIZER TK, ℄	
B2	A8	29	- RES. FD. WATER TK, S	
B2	A8	30	- RES. FD. WATER TK, P	
	A8	31	- SKEG	
	A8	32	- F.O. OVFL. TK, P	
	A8	33	- F.O. SLUDGE TK, ℄	
B2	A8	34	- BALL. TK #8, P/S	
	A8	35	- BALL. TK #8, ℄	
	A8	36	- BALL. TK #9, ℄	
	A8	37	- BALL. TK #9, P/S	
B2	A8	38	- BALL. TK #10, P/S	
B2	A8	39	- BALL. TK #11, P/S	
	A8	40	- BALL. TK #12, P/S	
	A4	41	- COFFERDAM	
	A4	42		
	A4	43		
	A4	44		
	A4	45		
	A4	46	- DRAIN TK, P	
	A8	47	- COFFERDAM	
	A8	48	DRAIN PLUG - SKEG	1½" I
	A8	49	FILL PLUG -	
	A8	50	- RUDDER HORN	
	A8	51		
	A8	52	DRAIN PLUG	
	A8	53		
	A8	54	BLEEDER PLUG - TRANSOM	
	A8	55	FILL PLUG - RUDDER	
	A8	56		
	A8	57		
	A8	58	DRAIN PLUG	
	A8	59		
	A8	60	FILL PLUG - OUTER STERN TUBE	
	A8	61		
	A8	62	DRAIN PLUG	
	A8	63	TRANSDUCER	17½"
	A8	64	SEA CHEST - STABILIZER FLOOD	88 1/16"x
	A8	65	SEA CHEST - ELEV. HYD. OIL CLR AUX. S.W. OVBD	3⅝"
	A8	66	SEA CHEST - OILY WASTE WATER OVBD	6¾"
	A8	67	SEA CHEST - TG CIRC WATER OVBD	20⅛
	A8	68	STUFFING TUBE - CATHODIC PROT.	3 1/16"
	A8	69		
	A8	70		
	B1	71	BLEEDER PLUG - COFFERDAM	1½"
	B2	72	- BALLAST TK #1	
	B2	73	#2 ℄	
	B2	74	#3	
	B2	75	#6	
	B2	76	#7	
	B2	77	#8	
	B2	78	#10	
	B2	79	#11	
	B2	80	RES. FD. WATER TK, STBD	
	B2	81	PORT	

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO. 241-507-00-01GD NO. 30251-02x1 FRAME 1 2 3 4 ⑤

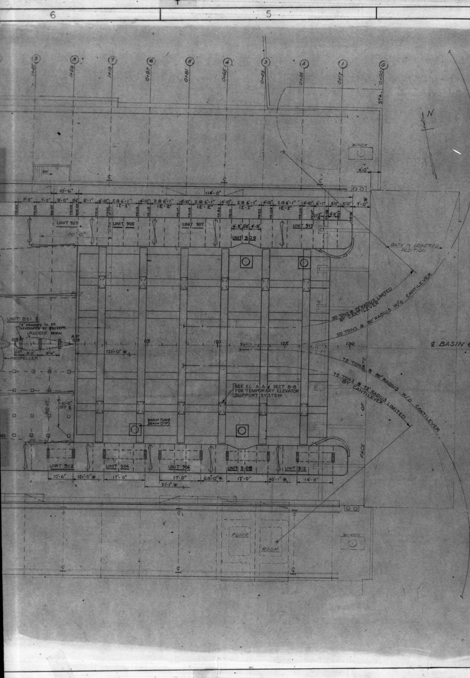

AREA FROM BOOTTOPPING TO RAIL = 91,350 SQ FT
37'-0" WL
DEEP L.L.
(AFT)
EXTENT OF BOOTTOPPING - 46,800 SQ FT
31'-0" DWL
18'-0" WL
BOTTOM AREA UP TO 18'-0" WL = 60,000 SQ FT.
130
125
120
115
109
107
105
100
94
88
82
75
70
64
58
52
46
40
34
28
AP

A1 23-F
SURFACE AREA OF HULL

241-S07-00-C

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-507-00-04 GD NO. 30240-01×1 FRAME ① 2 3 4

M.A. DWG NO. 241-507-00-04



STA. 0+00
N
WINCH
DN
10'-6"
114'-0"
4'-0"
7'-9"
7'-0"
8'-0"
8'-1"
4'-10"
2 @ 6'-1"
12'-2"
6'-1"
5'-0"
7'-0"
4'-0"
UNIT 903
UNIT 905
UNIT 907
UNIT 909
UNIT 913
4'-8"
2'-10"
30'-0"
GATE IN LOWERED POSITION
50 TONS @ 73' RADIUS LIMITED BY CANTILEVER
50 TONS @ 80' RADIUS W/O CANTILEVER
75 TONS @ 80' RADIUS W/O CANTILEVER
75 TONS @ 73' RADIUS LIMITED BY CANTILEVER
℄ BASIN 6
UNIT 821 ℄
"A" FRAMES TO BE DEVELOPED BY 880 DEPT.
RUDDER HORN
PROPELLER
A.P.
109
115
120
125
130
121'-0" *
SEE EL A-A & SECT B-B FOR TEMPORARY ELEVATOR SUPPORT SYSTEM
BASIN FLOOR DRAIN (TYP)
41'-0" OFF ℄
FACE OF
UNIT 902
UNIT 904
UNIT 906
UNIT 908
UNIT 912
10'-6"
121'-0" *
17'-0"
68'-0" *
40'-1" *
14'-11"
PUMP ROOM
WINCH

40 "A" FRAMES COMPL
ON PO # W1007-187-001

B1
C1

MATERIAL FOR CANTIL "A" FR & BOW CAP PLT			
SIZE	AMT	RLSE NO.	CODE
10X10X49# I	22 @ 52'	ERS 223123	9-20-00756
12X12X79# I	8 @ 40'	ERS 223123	9-20-00773
6 X 6 X ½" L	2500' (40' LGS)	ERS 223124	9-20-05271
12"X12"X40.8#	40 SQ FT	ERS 223125	9-20-01467
24 X 60 X 30.6#	100 SQ FT	ERS 223125	9-20-01462

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD

REVISIONS				Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION		DATE	APPD	DATE	APPD	DATE	APPD
4B	B	1. MATL LIST ADDED FOR CANTILEVER "A" FRAMES & BOW BLOCKING CAP PLATES.		9/29/70					
5,6,16,17 4 6 6	C	1. "A" FRAMES UNDER CANTIL & MATL LIST REV. 2. SHORES IN ROW 4 BET. FR 101-108 RELOC TO 37'-11" OFF ℄ 3. THREE "A" FRAMES ADDED UNDER RUDDER HORN (UNIT 821)		10/8/70	NRC				

REVISIONS	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		5 22 0	9 29 0	10 8 0	30212 (YARD ONLY)	A	5-30-0	800		
LYKES NY			1	1		B	9-30-0	820	1	
M.A.(WASH)			1	1		C	10-8-0	826	12	
M.A.(YARD)			1	1				829		
J.J.HENRY(YARD)			1	1				830	3	
J.J.HENRY(HOME)			1	1				841		
ABS			1	1				842		
USCG			1	1				843		
USPHS			1	1				844		
LYKES New Orleans			1	1				899	3	
								LIBRARY		
								828	1	
					Ford-2 Owens-2			840	0	
871	–	–	2	4				822	0	
872	–	–	–	–						
873	–	–	–	–			DRUCKER	814	1	
874	–	–	2	–			LOUD	820	1	
875	–	–	–	–						
876	–	–	–	–						
TOTAL NRO'S FS			13	13						
TOTAL NRO'S HS										
TOTAL RO								TOTAL	24	

GENERAL NOTES

HYDROSTATIC TANK TESTING

THE CRADLE HAS BEEN DESIGNED TO SUPPORT HYDROSTATIC TANK TESTING IN ALL TANKS EXCEPT #11 P/S & #12 P/S, WHICH SHALL BE TESTED AFTER FLOAT-OUT.

BLOCKING SYMBOLS

44 — EXISTING AS 37 KEEL BLOCKS TO BE RETAINED FOR LYKES. (TYPE A & D FULL BEARING)
AS 37 KEEL BLOCK NO.

NEW BLOCK POSITIONS FOR LYKES. (TYPE A & D FULL BEARING)
2 — LYKES KEEL BLOCK NO.

CONCRETE BASE BLOCK ONLY, TO BE POSITIONED PRIOR TO ERECTION IN WAY OF BOTTOM SHELL BUTTS. (TYPE E & F FULL BEARING) BLOCKS TO BE MARRIED TO HULL AS EARLY IN THE ERECTION CYCLE AS POSSIBLE.

TEMPORARY BLOCKS FOR ERECTION OF ELEVATOR ON BASIN FLOOR. SEE EL A-A & SECTION B-B. (TYPE B PARTIAL BEARING)

NEW LYKES BILGE CRIBS (SIMILAR TO TYPE A FULL BEARING). BLOCK TO BE MARRIED TO THE HULL AS EARLY IN THE ERECTION CYCLE AS POSSIBLE.
NO CONCRETE SHALL BE USED ABOVE BOTTOM OF KEEL EXTENDED.
THE WOOD FITTING BLOCKS ON CRIBS AFT OF FR 76 SHALL BE CAPABLE OF BEING HAULED AT TIME OF FLOAT-OFF.

SHORE POSITIONS ON BOTTOM SHELL FOR TANK TESTING & ERECTION.
10"X10" SHORING SHALL BE USED FOR LENGTHS LESS THAN 15'-0".
12"X12" SHORING SHALL BE USED FOR LENGTHS GREATER THAN 15'-0".

* DIMENSIONS FROM INBD FACE OF GATE.

DIMENSIONS

LENGTH OA (APPROX) — 873'-9"
LENGTH BP FR 0-109 — 740'-0"
BEAM MLD — 105'-10"
LENGTH AP → END CANTILEVER — 114'-0"

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
~~242~~	~~19~~	~~ALMERIA LYKES~~
241	18	DOCTOR LYKES

MICROFILMED
C 7-6-73

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO. 30240-01X1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR HAKULIN
SUPV W J Owens
ENGR

BLOCKING PLAN
NO. 6 BASIN

APPROVED DATE 5/20/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-507-00-04	C

SCALE 1"=10'-0" & AS SHOWN
SHEET 1 OF 1

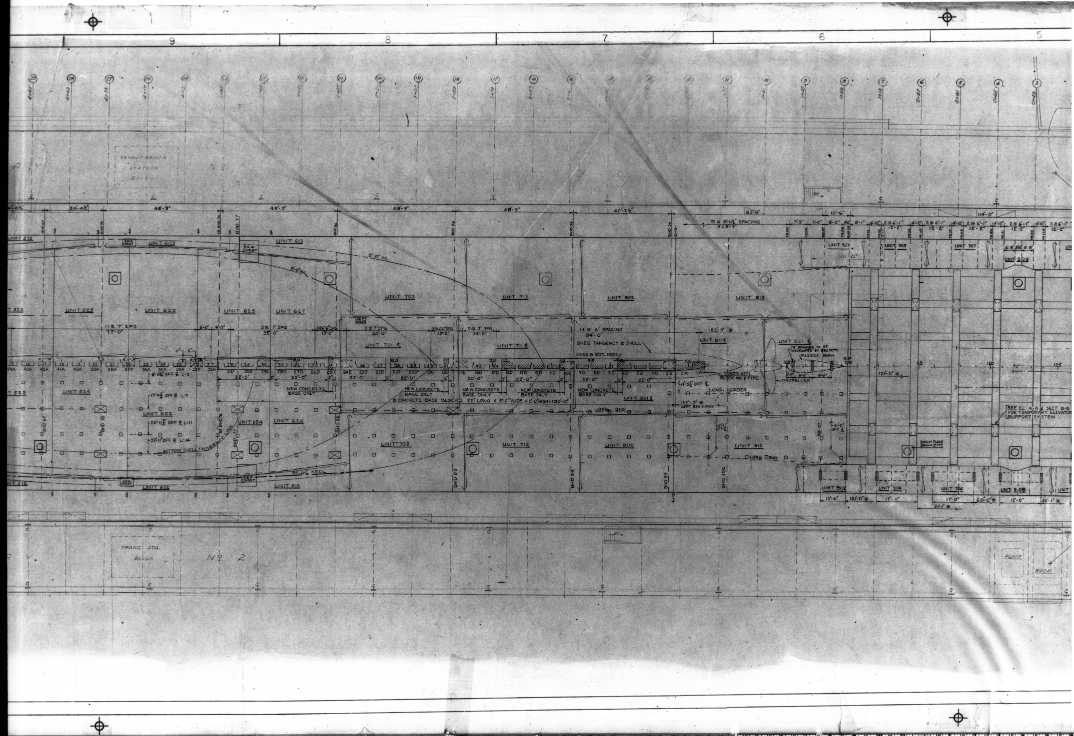
APPROVAL LTR DATED
ABS
USCG
USPHS

AREA = 50 SQ FT

DWG. NO. 30240-01X1

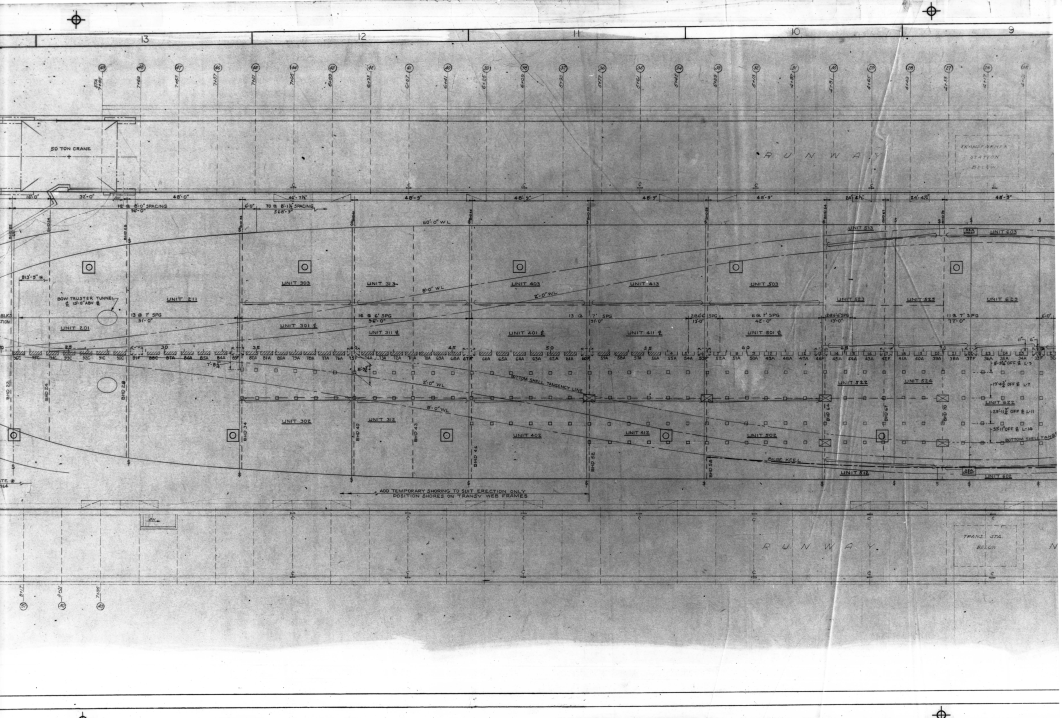
Q div DWG NO. 30240-01X1

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-507-00-04 GD NO. 30240-01 × 1 FRAME 1 ② 3 4

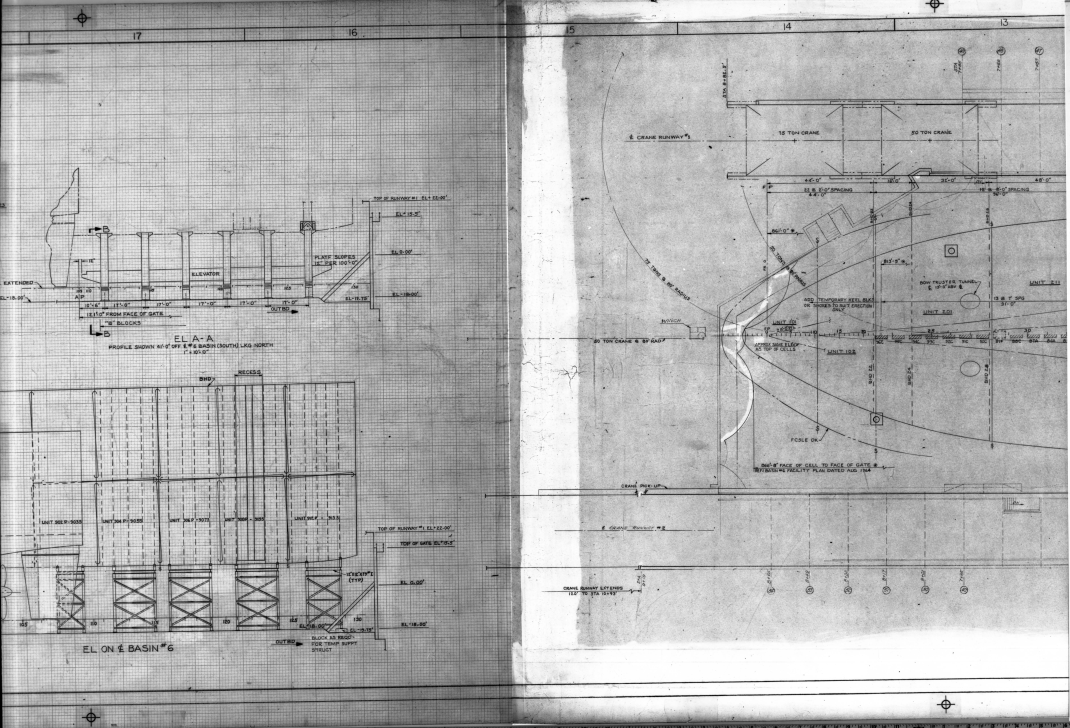

9
8
7
6
5
TRANSFORMER STATION BELOW
TRANS. STA. BELOW
Nº 2
48'-9"
40'-7½"
63'-6"
114'-0"
10'-6"
70 @ 8'-1½" SPACING 568'-9"
UNIT 513
UNIT 603
UNIT 613
SEA CHEST
8'-0" WL
2'-0" WL
UNIT 523
UNIT 525
UNIT 623
UNIT 625
UNIT 627
UNIT 703
UNIT 713
UNIT 803
UNIT 813
11 @ 7' SPG 77'-0"
5 @ 7' SPG 35'-0"
2 @ 6'-6" SPG 13'-0"
2 @ 7' SPG 14'-0"
14 @ 6' SPACING 84'-0"
182'-9" *
UNIT 701 ℄
UNIT 711 ℄
UNIT 811 ℄
UNIT 821 ℄
SKEG TANGENCY & SHELL
SKEG & BOT. KEEL
"A" FRAMES TO BE DEVELOPED BY B&O DEPT.
RUDDER HORN
LYKES KEEL BLOCK NO. 4 TYPE
PROPELLER
22'-0"
NEW CONCRETE BASE ONLY
8 CONCRETE BASE BLOCKS 22' LONG × 5'-0" WIDE × 2'-0" HIGH = 190'-0"
LONG. GIRDER
LONG. BHD
192'-3" *
121'-0" *
UNIT 522
UNIT 524
UNIT 622
UNIT 624
UNIT 626
UNIT 702
UNIT 712
UNIT 802
UNIT 812
UNIT 801 ℄
8'-9¾" OFF ℄ L-3
19'-4¾" OFF ℄ L-7
29'-11¾" OFF ℄ L-11
37'-11" OFF ℄ L-14
BOTTOM SHELL TANGENCY LINE
BILGE KEEL
UNIT 512
UNIT 602
UNIT 612
BHD 88
BHD 94
BHD 99
BHD 102
41'-0" OFF ℄
SEE EL A-A & SECT B-B FOR TEMPORARY ELEVATOR SUPPORT SYSTEM
BASIN FLOOR DRAIN (TYP)
UNIT 903
UNIT 905
UNIT 907
UNIT 909
UNIT 902
UNIT 904
UNIT 906
UNIT 908
10'-6"
121'-0" *
17'-0"
91'-1" *
66'-0" *
40'-1" *
PUMP ROOM
113
120
125

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-507-00-04 GD NO. 30240-01 × 1 FRAME 1 2 ③ 4


13
12
11
10
9
50 TON CRANE
RUNWAY
TRANSFORMER STATION BELOW
60'-0" WL
8'-0" WL
2'-0" WL
BOW TRUSTER TUNNEL ℄ 13'-0" ABV ℄
UNIT 201
UNIT 211
UNIT 301 ℄
UNIT 302
UNIT 303
UNIT 311 ℄
UNIT 312
UNIT 313
UNIT 401 ℄
UNIT 402
UNIT 403
UNIT 411 ℄
UNIT 412
UNIT 413
UNIT 501 ℄
UNIT 502
UNIT 503
UNIT 512
UNIT 513
UNIT 522
UNIT 523
UNIT 524
UNIT 525
UNIT 602
UNIT 603
UNIT 622
UNIT 623
SEA CHEST
BHD 22
BHD 24
BHD 28
BHD 34
BHD 40
BHD 43
BHD 46
BHD 52
BHD 58
BHD 64
BHD 67
BHD 70
12 @ 8'-0" SPACING 96'-0"
TO @ 8'-1½" SPACING 568'-3"
13 @ 7' SPG 91'-0"
16 @ 6' SPG 96'-0"
2 @ 6'-6" SPG 13'-0"
6 @ 7' SPG 42'-0"
11 @ 7' SPG 77'-0"
48'-0"
46'-7½"
48'-9"
24'-4½"
BOTTOM SHELL TANGENCY LINE
BILGE KEEL
19'-4¾" OFF ℄ L-7
23'-11¾" OFF ℄ L-11
37'-11" OFF ℄ L-14
ADD TEMPORARY SHORING TO SUIT ERECTION ONLY POSITION SHORES ON TRANSV WEB FRAMES
TRANS. STA. BELOW

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-507-00-04 GD NO. 30240-01×1 FRAME 1 2 3 ④

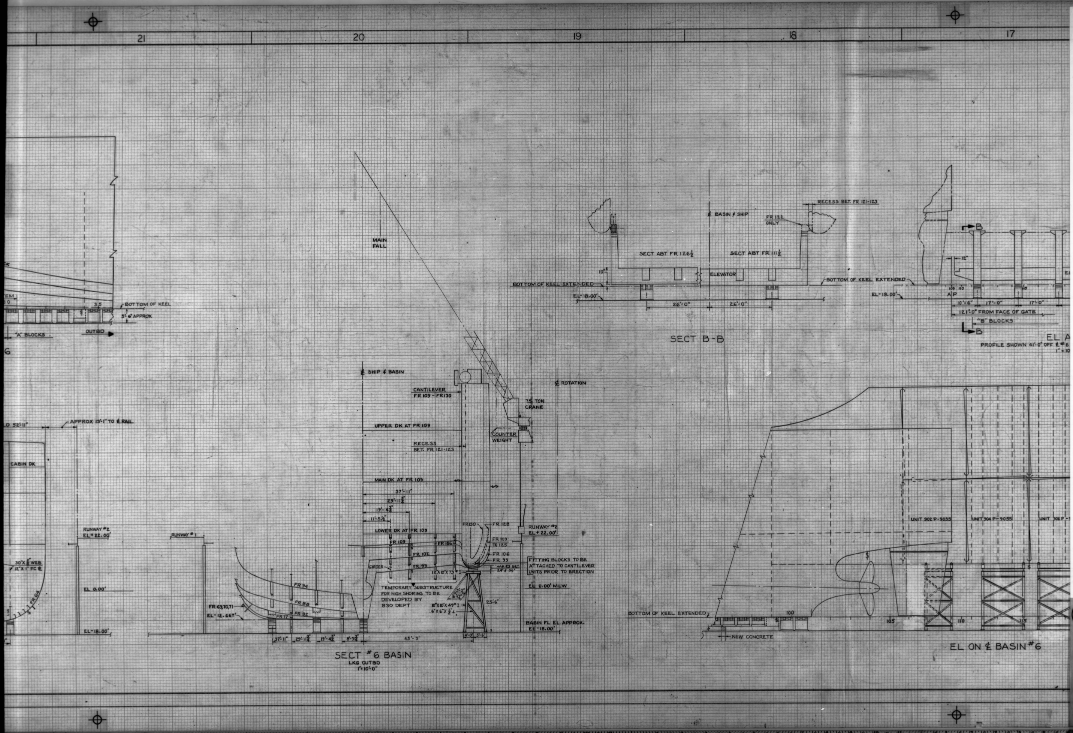


17
16
15
14
13
EXTENDED
EL-18.00'
B
ELEVATOR
PLATF SLOPES 12" PER 100'-0"
TOP OF RUNWAY #1 EL+22.00'
EL+15.5'
EL 0.00'
EL-18.00'
EL-19.75'
AP
10'-6"
17'-0"
121'-0" FROM FACE OF GATE
"B" BLOCKS
OUTBD
EL A-A
PROFILE SHOWN 41'-0" OFF ℄ #6 BASIN (SOUTH) LKG NORTH
1" = 10'-0"
BHD
RECESS
UNIT 902 P-9033
UNIT 904 P-9055
UNIT 906 P-9073
UNIT 908 P-9093
UNIT 912 P-9133
TOP OF RUNWAY #1 EL+22.00'
TOP OF GATE EL+15.5'
12"X12"X79"I (TYP)
EL 0.00'
EL-18.00'
EL-19.75'
BLOCK AS REQD FOR TEMP SUPPT STRUCT
OUTBD
EL ON ℄ BASIN #6
STA 8+82.5'
℄ CRANE RUNWAY #1
75 TON CRANE
50 TON CRANE
44'-0"
18'-0"
32'-0"
48'-0"
FP
22 @ 2'-0" SPACING
12 @ 3'-0" SPACING
861'-0" *
813'-9" *
50 TONS @ 80' RADIUS
75 TONS @ 80' RADIUS
BOW TRUSTER TUNNEL ℄ 13'-0" ABV ℄
UNIT 211
UNIT 201
13 @ 7' SPG
ADD TEMPORARY KEEL BLKS OR SHORES TO SUIT ERECTION ONLY
WINCH
UNIT 101
50 TON CRANE @ 80' RAD
APPROX SAME ELEV AS TOP OF CELLS
UNIT 102
BHD 22
BHD 24
BHD 28
FCSLE DK
866'-8" FACE OF CELL TO FACE OF GATE *
REF: BASIN #6 FACILITY PLAN DATED AUG 1964
CRANE PICK-UP
℄ CRANE RUNWAY #2
CRANE RUNWAY EXTENDS 120' TO STA 10+93'

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-507-00-04 GD NO. 30240-01 x1 FRAME 1 2 3 4

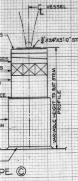
⑤ 6 7



21
20
19
18
17
BOTTOM OF KEEL
3'-6" APPROX
"A" BLOCKS
OUTBD
MAIN FALL
℄ BASIN & SHIP
RECESS BET. FR 121-123
FR 122 ONLY
SECT ABT FR 126½
SECT ABT FR 111½
ELEVATOR
BOTTOM OF KEEL EXTENDED
EL-18.00'
26'-0"
26'-0"
SECT B-B
AP
10'-6"
17'-0"
17'-0"
121'-0" FROM FACE OF GATE
"B" BLOCKS
B
EL A
PROFILE SHOWN 41'-0" OFF ℄ #6
℄ SHIP & BASIN
CANTILEVER FR 109 - FR 130
75 TON CRANE
℄ ROTATION
COUNTER WEIGHT
UPPER DK AT FR 109
RECESS BET. FR 121-123
MAIN DK AT FR 105
37'-11"
29'-11¾"
19'-4¾"
11'-5½"
LOWER DK AT FR 103
FR 130
FR 128
FR 109 TO 125
FR 106
FR 99
FR 109
FR 102
FR 99
GIRDER
12"X12"X73#I
VARIES BET. 24" & 36"
FITTING BLOCKS TO BE ATTACHED TO CANTILEVER UNITS PRIOR TO ERECTION
RUNWAY #2 EL+22.00'
EL 0.00' MLW
TEMPORARY SUBSTRUCTURE FOR HIGH SHORING TO BE DEVELOPED BY 830 DEPT
5'-0"
6'-0"
10"X10"X49# I
6"X6"X½" L
25'-6"
BASIN FL EL APPROX. EL-18.00'
4'-0"
5'-6"
45'-3"
RUNWAY #1
FR 94
FR 88
FR 82
FR 77
FR 63,70,71
EL-12.667'
37'-11"
29'-11¾"
19'-4¾"
8'-3¾"
SECT #6 BASIN
LKG OUTBD
1"=10'-0"
APPROX 13'-1" TO ℄ RAIL
LD 52'-11"
CABIN DK
RUNWAY #2 EL+22.00'
30"X ½" WEB
12"X1" FC ℄
EL 0.00'
EL-18.00'
FR 64
UNIT 902 P-9035
UNIT 904 P-9055
UNIT 906 P
BOTTOM OF KEEL EXTENDED
100
105
110
115
NEW CONCRETE
EL ON ℄ BASIN #6

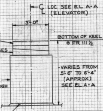
GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-507-00-04 GD NO. 30240-01 x1 FRAME 1 2 3 4 5 ⑥ 7

25 24 23 22 21



℄ VESSEL
3/4"X24"X5'-0" STEEL CAP
VARIABLE HEIGHT TO SUIT STEM PROFILE

TYPE ©

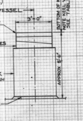


℄ LOC SEE EL A-A (ELEVATOR)
3'-0"
BOTTOM OF KEEL @ FR 111 1/2
VARIES FROM 5'-6" TO 6'-4" (APPROX) SEE EL A-A

TYPE Ⓑ

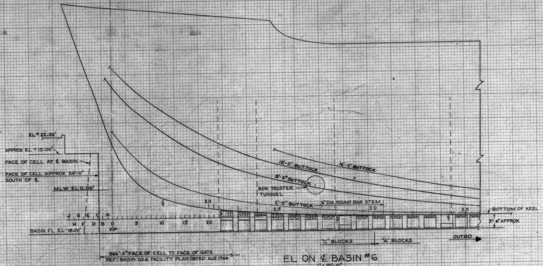
THK
1 3/16"
1 1/4"
1 3/8"
1 1/4"
1 3/16"

TIONS



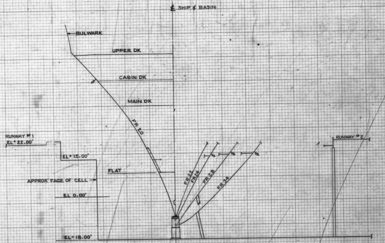
VESSEL
3'-0"
BOTTOM OF KEEL NOTE KEEL VARIATIONS SEE TABLE
APPROX 5'-6"

TYPE Ⓐ



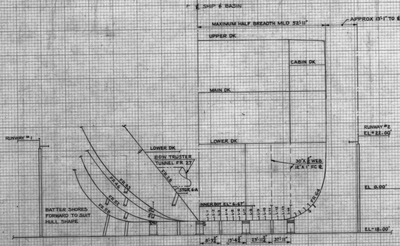
EL + 22.00'
APPROX EL + 15.00'
FACE OF CELL AT ℄ BASIN
FACE OF CELL APPROX 24'-0" SOUTH OF ℄
MLW EL 0.00'
BASIN FL EL-18.00'
J G E C A
H F D B 0
FP
5 10 15 20 20 25 30 35
16'-0" BUTTOCK
12'-0" BUTTOCK
8'-0" BUTTOCK
2'-0" BUTTOCK
BOW TRUSTER TUNNEL
6" DIA ROUND BAR STEM
BOTTOM OF KEEL
5'-6" APPROX
"C" BLOCKS
"A" BLOCKS
OUTBD
866'-8" FACE OF CELL TO FACE OF GATE
REF: BASIN NO.6 FACILITY PLAN DATED AUG 1964

EL ON ℄ BASIN #6
1" = 10'-0"



℄ SHIP ℄ BASIN
BULWARK
UPPER DK
CABIN DK
MAIN DK
FR 20
RUNWAY #1 EL + 22.00'
EL + 15.00'
FLAT
APPROX FACE OF CELL
EL 0.00'
EL-18.00'
FR 22
FR 24
FR 28
FR 34
RUNWAY #2

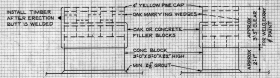
SECT #6 BASIN
LKG OUTBD
1" = 10'-0"



℄ SHIP ℄ BASIN
MAXIMUM HALF BREADTH MLD 52'-11"
APPROX 13'-1" TO ℄ RAIL
UPPER DK
CABIN DK
MAIN DK
LOWER DK
RUNWAY #1
LOWER DK
BOW TRUSTER TUNNEL FR 27
FR 28
STGR 6-A
FR 43
FR 46
FR 52
FR 56
BATTER SHORES FORWARD TO SUIT HULL SHAPE
30"X 5/8" WEB 12"X 1" FC ℄
RUNWAY #2 EL + 22.00'
EL 0.00'
EL-18.00'
INNER BOT EL-6.67'
L-1 L-2 L-3 L-4 L-5 L-6 L-7 L-8 L-9 L-10 L-11 L-12 L-13 L-14
FR 64
8'-9 3/4"
19'-4 3/4"
29'-11 3/4"
37'-11"

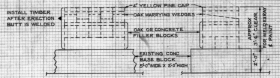
SECT #6 BASIN
LKG OUTBD
1" = 10'-0"

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-507-00-04 GD NO. 30240-01 × 1 FRAME 1 2 3 4 5 6 ⑦


INSTALL TIMBER AFTER ERECTION BUTT IS WELDED
4" YELLOW PINE CAP
OAK MARRYING WEDGES
OAK OR CONCRETE FILLER BLOCKS
CONC BLOCK 3'-0"X5'-0"X22" HIGH
MIN 2½" GROUT
APPROX 3'-5" CLEAR FOR WELD, EXRAY & PAINT
APPROX 2'-1"

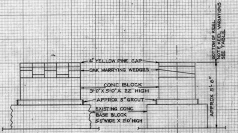
KEEL BLOCK TYPE Ⓕ

½" = 1'-0"


INSTALL TIMBER AFTER ERECTION BUTT IS WELDED
4" YELLOW PINE CAP
OAK MARRYING WEDGES
OAK OR CONCRETE FILLER BLOCKS
EXISTING CONC BASE BLOCK 5'-0" WIDE X 2'-0" HIGH
APPROX 3'-6" CLEAR FOR WELD EXRAY & PAINT
2'-0"

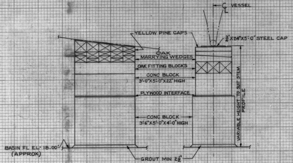
KEEL BLOCK TYPE Ⓔ

½" = 1'-0"


BOTTOM OF KEEL NOTE KEEL VARIATIONS SEE TABLE
4" YELLOW PINE CAP
OAK MARRYING WEDGES
CONC BLOCK 3'-0" X 5'-0" X 22" HIGH
APPROX 5" GROUT
EXISTING CONC BASE BLOCK 5'-0" WIDE X 2'-0" HIGH
APPROX 5'-6"

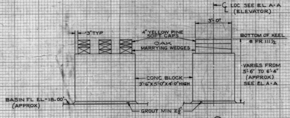
KEEL BLOCK TYPE Ⓓ

½" = 1'-0"


℄ VESSEL
YELLOW PINE CAPS
¾" X 24" X 5'-0" STEEL CAP
OAK MARRYING WEDGES
OAK FITTING BLOCKS
CONC BLOCK 3'-0"X5'-0"X22" HIGH
PLYWOOD INTERFACE
CONC BLOCK 3'-6"X5'-0"X4'-0" HIGH
VARIABLE HEIGHT TO SUIT STEM PROFILE
BASIN FL EL-18.00' (APPROX)
GROUT MIN 2½"

KEEL BLOCKS TYPE Ⓒ

½" = 1'-0"

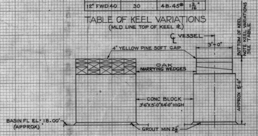

℄ LOC SEE EL A-A (ELEVATOR)
3'-0"
3" TYP
4" YELLOW PINE SOFT CAPS
BOTTOM OF KEEL @ FR 111½
OAK MARRYING WEDGES
VARIES FROM 5'-6" TO 6'-4" (APPROX) SEE EL A-A
CONC BLOCK 3'-6"X5'-0"X4'-0" HIGH
BASIN FL EL-18.00' (APPROX)
GROUT MIN 2½"

ELEVATOR BLOCKING TYPE Ⓑ

½" = 1'-0"

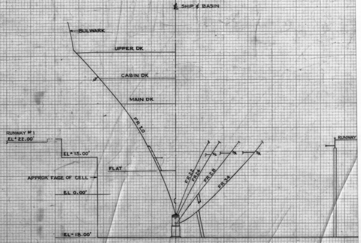
FLAT KEEL PL THK			
FROM FR	TO FR	WT	THK
101	12" FWD 64	48.45#	1 3/16"
12" FWD 64	12" FWD 61	51.0#	1 1/4"
12" FWD 61	12" AFT 43	56.1#	1 3/8"
12" AFT 43	12" FWD 40	51.0#	1 1/4"
12" FWD 40	30	48.45#	1 3/16"

TABLE OF KEEL VARIATIONS
(MLD LINE TOP OF KEEL PL)


℄ VESSEL
3'-0"
4" YELLOW PINE SOFT CAP
BOTTOM OF KEEL NOTE KEEL VARIATIONS SEE TABLE
OAK MARRYING WEDGES
CONC BLOCK 3'-6"X5'-0"X4'-0" HIGH
APPROX 5'-6"
BASIN FL EL-18.00' (APPROX)
GROUT MIN 2½"

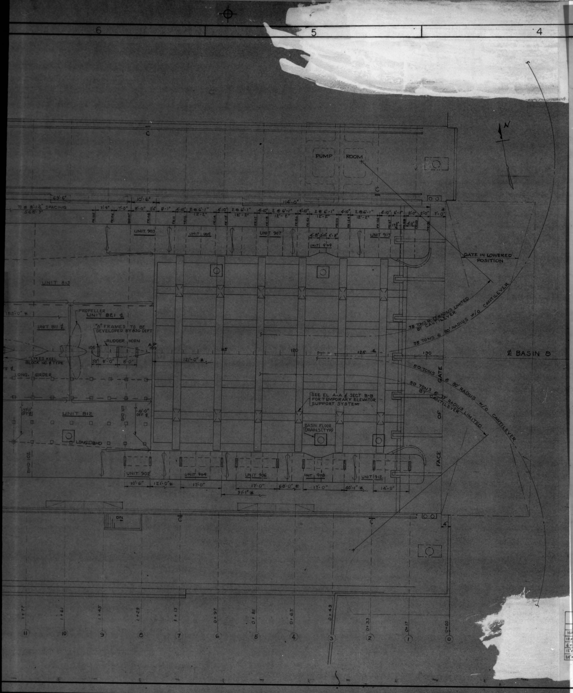
KEEL BLOCK TYPE Ⓐ

½" = 1'-0"


℄ SHIP & BASIN
BULWARK
UPPER DK
CABIN DK
MAIN DK
FR 20
RUNWAY #1 EL+22.00'
EL+15.00'
FLAT
APPROX FACE OF CELL
EL 0.00'
EL-18.00'
FR 22
FR 24
FR 28
FR 34
RUNWAY

SECT # 6 BASIN
LKG OUTBD
1" = 10'-0"

GENERAL DYNAMICS, QUINCY APRIL., 1974 8X
MA NO. GD NO. 30240-01X2 FRAME 1234


6
5
4
PUMP ROOM
UNIT 903
UNIT 905
UNIT 907
UNIT 909
UNIT 913
UNIT 813
UNIT 811
UNIT 821
PROPELLER
"A" FRAMES TO BE DEVELOPED BY 830 DEPT
RUDDER HORN
LYKES KEEL BLOCK NO. & TYPE
LONG. GIRDER
UNIT 812
LONG'L BHD
UNIT 902
UNIT 904
UNIT 906
UNIT 908
UNIT 912
SEE EL A-A & SECT B-B FOR TEMPORARY ELEVATOR SUPPORT SYSTEM
BASIN FLOOR DRAINS (TYP)
GATE IN LOWERED POSITION
75 TONS DYNAMICS LIMITED BY CANTILEVER
75 TONS @ 80' RADIUS W/O CANTILEVER
50 TONS @ 80' RADIUS W/O CANTILEVER
50 TONS @ 83' RADIUS LIMITED BY CANTILEVER
FACE OF GATE
℄ BASIN 8
114'-0"
63'-6"
10'-6"
121'-0"
105
109
85
120
125
130
11 10 9 8 7 6 5 4 3 2 1 0

MATERIAL FOR CANTIL "A" FR & BOW CAP PLT			
SIZE	AMT	RLSE NO.	CODE
10X10X49# I	22 @ 52'	ERS 223123	9-20-00756
12X12X73# I	8 @ 40'	ERS 223123	9-20-00773
6X6X½" ∠	2500'(40'LGS)	ERS 223124	9-20-05271
12"X12"X40.8#	40 SQ FT	ERS 223125	9-20-01467
24"X60"X30.6#	100 SQ FT	ERS 223125	9-20-01462

GENERAL NOTES

HYDROSTATIC TANK TESTING

THE CRADLE HAS BEEN DESIGNED TO SUPPORT HYDROSTATIC TANK TESTING IN ALL TANKS EXCEPT #11 P/S & #12 P/S, WHICH SHALL BE TESTED AFTER FLOAT-OUT.

BLOCKING SYMBOLS

42 EXISTING AOR KEEL BLOCKS TO BE RETAINED FOR LYKES. (TYPE A & D FULL BEARING)
AOR KEEL BLOCK NO.

NEW BLOCK POSITIONS FOR LYKES. (TYPE A & D FULL BEARING)
2 → LYKES KEEL BLOCK NO.

CONCRETE BASE BLOCKS ONLY, TO BE POSITIONED PRIOR TO ERECTION IN WAY OF BOTTOM SHELL BUTTS (TYPE "D" FULL BEARING) BLOCKS TO BE MARRIED TO HULL AS EARLY IN THE ERECTION CYCLE AS POSSIBLE.

TEMPORARY BLOCKS FOR ERECTION OF ELEVATOR ON BASIN FLOOR SEE EL A-A & SECTION B-B (TYPE B PARTIAL BEARING)

NEW LYKES BILGE CRIBS (SIMILAR TO TYPE A FULL BEARING). BLOCK TO BE MARRIED TO THE HULL AS EARLY IN THE ERECTION CYCLE AS POSSIBLE.
NO CONCRETE SHALL BE USED ABOVE BOTTOM OF KEEL EXTENDED. THE WOOD FITTING BLOCKS ON CRIBS AFT OF FR 76 SHALL BE CAPABLE OF BEING HAULED AT TIME OF FLOAT-OFF.

SHORE POSITIONS ON BOTTOM SHELL FOR TANK TESTING & ERECTION.
10"X10" SHORING SHALL BE USED FOR LENGTHS LESS THAN 15'-0".
12"X12" SHORING SHALL BE USED FOR LENGTHS GREATER THAN 15'-0".

← * DIMENSIONS FROM FACE OF GATE.

DIMENSIONS

LENGTH OA APPROX — 873'-9"
LENGTH BP FR 0-109 — 740'-0"
BEAM MLD — 105'-10"
LENGTH AP → END CANTILEVER 114'-0"

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

3 REVISIONS ZONE	LTR	DESCRIPTION	Q div DATE	APPD	M.A. DATE	APPD	OWNER DATE	APPD

2 REVISIONS ZONE	LTR	DESCRIPTION	Q div DATE	APPD	M.A. DATE	APPD	OWNER DATE	APPD

W.A. DWG NO. S07-00-05

REVISIONS TO	O	A (2 to design issue) 10/8	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
LYKES NY		/			30212 (YARD ONLY)	A	10-12-0	800		
M.A.(WASH)		/						820	5	
M.A.(YARD)		/						826	12	
J.J.HENRY(YARD)		/						829		
J.J.HENRY(HOME)		/						830	7	
ABS		/						841		
USCG		/						842		
USPHS		/						843		
LYKES N.ORLEANS		/						844		
								899		
								LIBRARY	3	
								828	1	
								840	1	
871	–	4			FORD-2 OWENS-2			822	0	
872	–	-								
873	–	-					DRUCKER	814	1	
874	–	-					LOUD	820	1	
875	–	-								
876	–	-								
TOTAL NRO'S FS		18						TOTAL	31	
TOTAL NRO'S HS										
TOTAL RO										

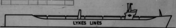
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
~~243~~	~~20~~	~~TILLIE LYKES~~
242	19	ALMERIA LYKES
~~241~~	~~18~~	~~DOCTOR LYKES~~

MICROFILMED
A 7-2-23

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30240-01X2

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR HAKULIN
SUPV W. J. Owens
ENGR W.R. Cleary

BLOCKING PLAN
NO. 8 BASIN

APPROVED DATE R. G. Ford 10/8/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316		A

SCALE 1"=10'-0" & AS SHOWN
SHEET 1 OF 1

APPROVAL LTR DATED
ABS
USCG
USPHS

S07-00-05

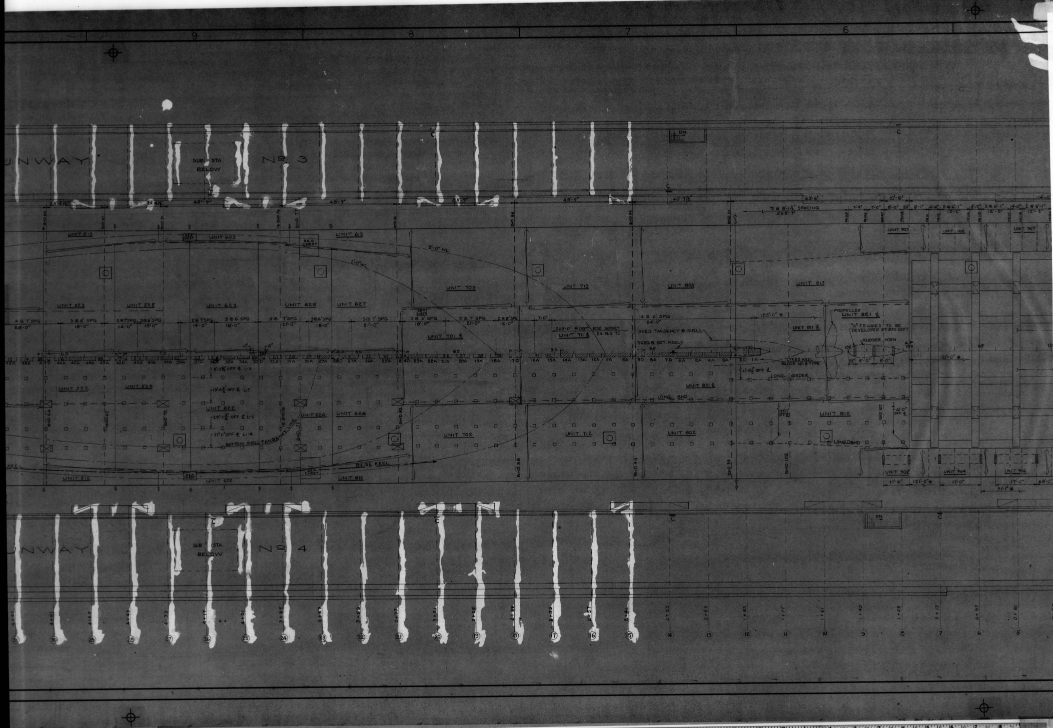
DWG. NO. 30240-01X2

Q div DWG NO. 30240-01X2

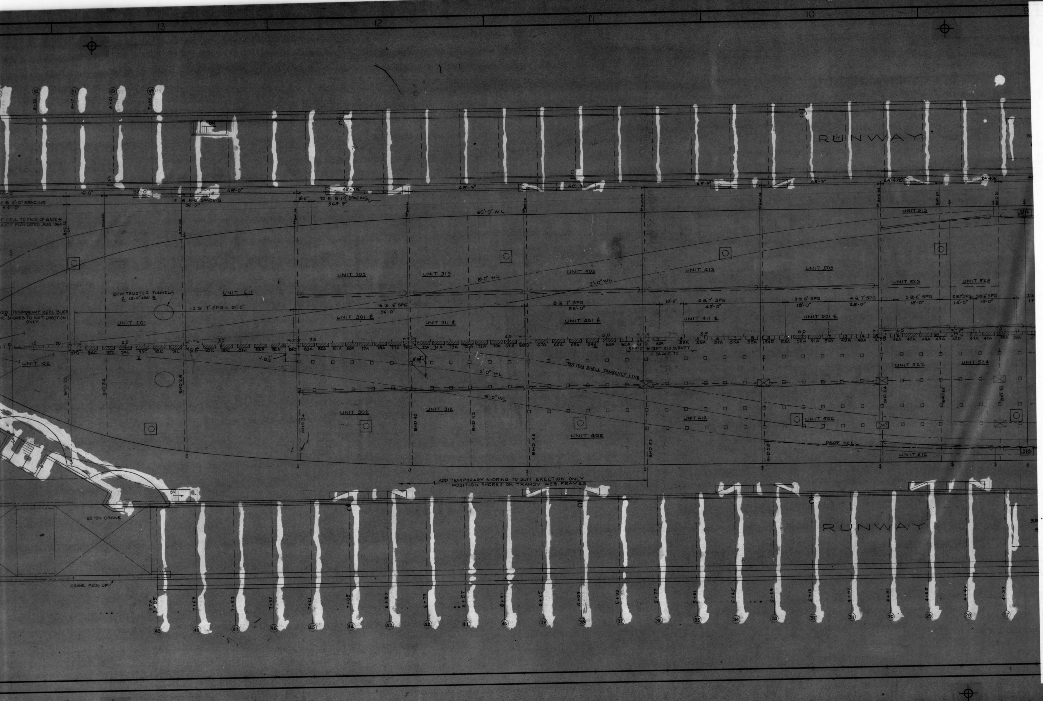
AREA = 50 SQ FT

GENERAL DYNAMICS, QUINCY APRIL., 1974 8X

MA NO. GD NO. 30240-01x2 FRAME 1②34



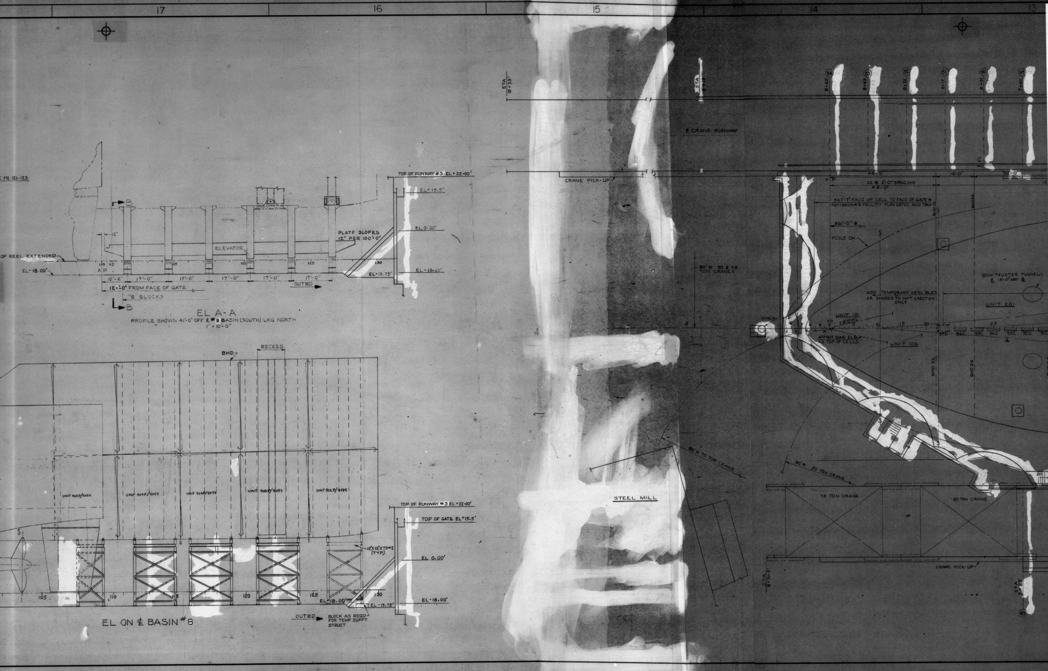
9
8
7
6
UNWAY Nº 3
SUB STA BELOW
UNWAY Nº 4
SUB STA BELOW
24'-4½"
48'-9"
40'-7½"
63'-6"
10'-6"
114'-0"
70 @ 8'-1½" SPACING 568'-9"
UNIT 513
UNIT 603
UNIT 613
UNIT 523
UNIT 525
UNIT 623
UNIT 625
UNIT 627
UNIT 703
UNIT 713
UNIT 803
UNIT 813
UNIT 903
UNIT 905
UNIT 907
UNIT 701 ℄
UNIT 711 ℄
UNIT 811 ℄
UNIT 821 ℄
UNIT 522
UNIT 524
UNIT 622
UNIT 624
UNIT 626
UNIT 702
UNIT 712
UNIT 802
UNIT 801 ℄
UNIT 812
UNIT 512
UNIT 602
UNIT 612
UNIT 902
UNIT 904
UNIT 906
SEA CHEST
8'-0" WL
2'-0" WL
SKEG TANGENCY @ SHELL
SKEG @ BOT. KEEL
PROPELLER
"A" FRAMES TO BE DEVELOPED BY 830 DEPT
RUDDER HORN
A.P.
LYKES KEEL BLOCK NO. 8 TYPE
LONG. GIRDER
LONG. BHD
BOTTOM SHELL TANGENCY LINE
BILGE KEEL
KEEL
185'-0"
121'-0"
269'-0" DEPT. 830 SURVEY 24 AUG 70
14 @ 6' SPG 84'-0"
31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5


RUNWAY
RUNWAY
UNIT 102
UNIT 201
UNIT 211
BOW TRUSTER TUNNEL
UNIT 301
UNIT 302
UNIT 303
UNIT 311
UNIT 312
UNIT 313
UNIT 401
UNIT 402
UNIT 403
UNIT 411
UNIT 412
UNIT 413
UNIT 501
UNIT 502
UNIT 503
UNIT 512
UNIT 513
UNIT 522
UNIT 523
UNIT 524
UNIT 525
60'-0" WL
8'-0" WL
2'-0" WL
BOTTOM SHELL TANGENCY LINE
BILGE KEEL
ADD TEMPORARY SHORING TO SUIT ERECTION ONLY
POSITION SHORES ON TRANSV WEB FRAMES
ADD TEMPORARY KEEL BLKS
50 TON CRANE
CRANE PICK-UP
13
12
11
10

GENERAL DYNAMICS, QUINCY APRIL., 1974 8X
MA NO.
GD NO. 30240-01x2 FRAME 1234

GENERAL DYNAMICS, QUINCY APRIL, 1974 8X

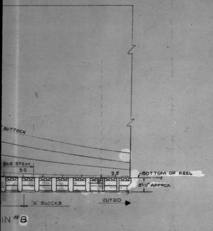
MA NO. GD NO. 30240-01x2 FRAME 1234

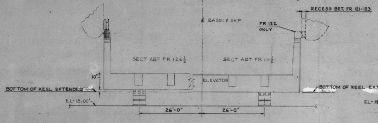

17
16
15
14
13
FR 121-123
OF KEEL EXTENDED
EL-18.00'
AP
109 110
115
120
125
130
10'-6"
17'-0"
17'-0"
17'-0"
17'-0"
17'-0"
121'-0" FROM FACE OF GATE
"B" BLOCKS
B
ELEVATOR
PLATF SLOPES 12" PER 100'-0"
OUTBD
TOP OF RUNWAY #3 EL +22-00'
EL+15.5'
EL 0.00'
EL-19.75'
EL-18.00'
EL A-A
PROFILE SHOWN 41'-0" OFF ℄ #8 BASIN (SOUTH) LKG NORTH
1" = 10'-0"
BHD
RECESS
UNIT 902P/9025
UNIT 904P/9055
UNIT 906P/9075
UNIT 908P/9095
UNIT 912P/9135
TOP OF RUNWAY #3 EL +22-00'
TOP OF GATE EL+15.5'
12"X12"X79#I (TYP)
EL 0.00'
EL-18.00'
EL-19.75'
105
110
115
120
125
130
OUTBD
BLOCK AS REQD FOR TEMP SUPPT STRUCT
EL ON ℄ BASIN #8
STA 10+39'
STA 9+19
℄ CRANE RUNWAY
CRANE PICK-UP
80'R 50 & 75 TON CRANES
STEEL MILL
80'R 75 TON CRANE
80'R 50 TON CRANE
75 TON CRANE
50 TON CRANE
CRANE PICK-UP
STA 8+71.5'
STA 7+85
43
54
8+65
8+49
8+33
8+17
8+01
7+85
42'-0"
16'-0"
FP
22 @ 2'-0" SPACING 44'-0"
867'-7" FACE OF CELL TO FACE OF GATE *
REF: BASIN #8 FACILITY PLAN DATED AUG 1964
861'-0" *
FCSLE DK
BHD 5
BOW TRUSTER TUNNEL ℄ 15'-0" ABV ℄
ADD TEMPORARY KEEL BLKS OR SHORES TO SUIT ERECTION ONLY
UNIT 201
UNIT 101
UNIT 102
WINCH
APPROX SAME ELB AS TOP OF CELLS
BHD 22
BHD 24
97D
96C
35C
34C
33C
32C

GENERAL DYNAMICS, QUINCY APRIL, 1974 8X

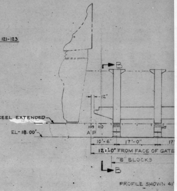
MA NO. GD NO. 30240-01x2 FRAME ⑤6789

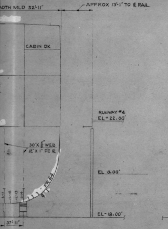
21 20 19 18 17

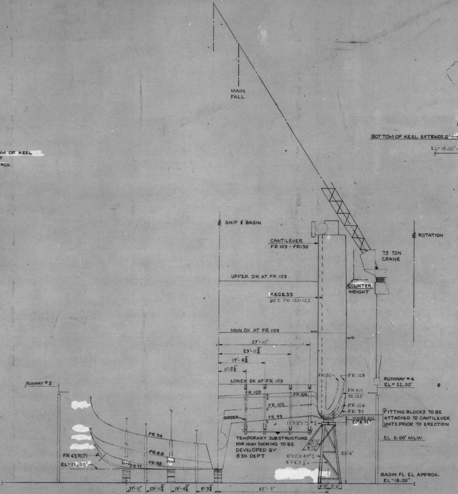

BUTTOCK
BAR STEM
30
3.5
BOTTOM OF KEEL
5'-0" APPROX
"A" BLOCKS
OUTBD
IN #8


℄ BASIN ≠ SHIP
RECESS BET. FR 121-123
FR 122 ONLY
SECT ABT FR 126½
SECT ABT FR 111½
10"±
ELEVATOR
BOTTOM OF KEEL EXTENDED
EL-18.00'
26'-0"
26'-0"

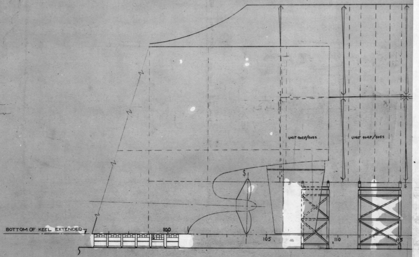
SECT B-B


B
12"
BOTTOM OF KEEL EXTENDED
EL-18.00'
109 110
A.P.
115
10'-6"
17'-0"
17
12'-0" FROM FACE OF GATE
"B" BLOCKS
B
PROFILE SHOWN 4


ADTH MLD 52'-11"
APPROX 13'-1" TO ℄ RAIL
CABIN DK
30"X⅝" WEB
12"X1" FC ℞
L-11
L-12
L-13
L-14
FR 64
RUNWAY #4
EL+22.00'
EL 0.00'
EL-18.00'
37'-11"


MAIN FALL
℄ SHIP ℄ BASIN
CANTILEVER FR 109 - FR130
75 TON CRANE
℄ ROTATION
COUNTER WEIGHT
UPPER DK AT FR 109
RECESS BET. FR 121-123
MAIN DK AT FR 109
37'-11"
29'-11¾"
19'-4¾"
11'-5¾"
LOWER DK AT FR 109
FR130
FR 128
FR 109
FR 106
FR 109 TO 125
FR 102
FR 106
FR 99
FR 99
GIRDER
12"X12"X73"I
VARIES BET 2'0" & 32"
FITTING BLOCKS TO BE ATTACHED TO CANTILEVER UNITS PRIOR TO ERECTION
TEMPORARY SUBSTRUCTURE FOR HIGH SHORING TO BE DEVELOPED BY 830 DEPT
5'0"
6'0"
10"X10"X49"I
6"X6"X½"L
25'-6"
RUNWAY #3
RUNWAY #4
EL+22.00'
EL 0.00' MLW
FR 94
FR 88
FR 63,70,71
EL-13.00'
FR 77
FR 82
BASIN FL EL APPROX. EL-18.00'
37'-11"
29'-11¾"
19'-4¾"
8'-3½"
45'-9"
4'-0"
5'-6"

SECT #8 BASIN
LKG OUTBD
1"=10'-0"

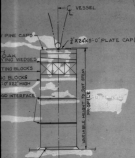

UNIT 902P/903S
UNIT 904P/905S
BOTTOM OF KEEL EXTENDED
100
105
110
115

EL ON ℄ BASIN #8

GENERAL DYNAMICS, QUINCY APRIL, 1974 8X

MA NO. GD NO. 30240-01x2 FRAME 5[✓ 6]789

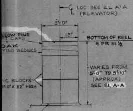
25 24 23 22 21



C VESSEL
PINE CAPS
3/2"X24"X5'-0" PLATE CAP (STEEL)
OAK
YING WEDGES
TING BLOCKS
NC BLOCKS
-0" X22" HIGH
OD INTERFACE
VARIABLE HEIGHT TO SUIT STEM PROFILE
T MIN 2½

KS TYPE Ⓒ

1'-0"



C LOC SEE EL A-A (ELEVATOR)
3'-0"
18"
LLOW PINE
T CAPS
OAK
YING WEDGES
NC BLOCKS
5'-0"X 22" HIGH
BOTTOM OF KEEL @ FR 111½
VARIES FROM 5'-0" TO 5'-10" (APPROX) SEE EL A-A
T MIN 2½"

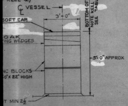
CKING TYPE Ⓑ

= 1'-0"

THK	
WT	THK
48.45#	1 3/16"
51.0#	1¼"
56.1#	1⅜"
51.0#	1¼"
48.45#	1 3/16"

VARIATIONS

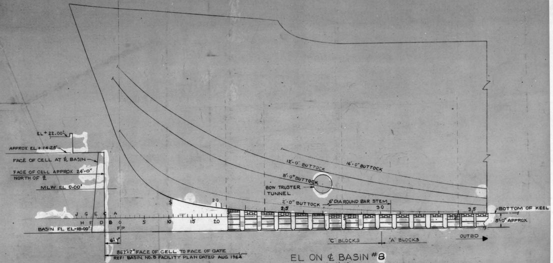
KEEL ℞)



C VESSEL
3'-0"
SOFT CAP
OAK
YING WEDGES
NC BLOCKS
0"X 22" HIGH
BOTTOM OF KEEL NOTE KEEL VARIATIONS SEE TABLE
5'-0" APPROX
T MIN 2½

CK TYPE Ⓐ

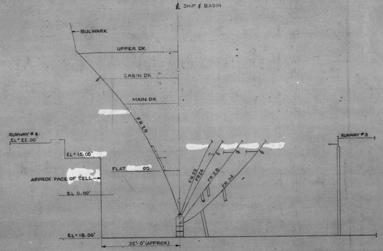
1'-0"



EL + 22.00'
APPROX EL + 14.25'
FACE OF CELL AT ℄ BASIN
FACE OF CELL APPROX 24'-0" NORTH OF ℄
MLW EL 0.00'
J G E C A
H F D B 0
5 10 15 20
FP
20 25 30 35
BASIN FL EL-18.00'
12'-0" BUTTOCK
16'-0" BUTTOCK
8'-0" BUTTOCK
BOW TRUSTER TUNNEL
2'-0" BUTTOCK
6" DIA ROUND BAR STEM
BOTTOM OF KEEL
5'-0" APPROX
"C" BLOCKS
"A" BLOCKS
OUTBD
6'-7"
867'-7" FACE OF CELL TO FACE OF GATE
REF: BASIN NO. 8 FACILITY PLAN DATED AUG 1964

EL ON ℄ BASIN #8

1" = 10'-0"

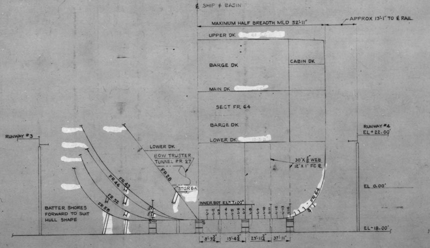


℄ SHIP & BASIN
BULWARK
UPPER DK
CABIN DK
MAIN DK
FR 20
RUNWAY #4 EL+22.00'
EL+15.00'
FLAT 00
APPROX FACE OF CELL
EL 0.00'
FR 22
FR 24
FR 28
FR 34
RUNWAY #3
EL-18.00'
32'-0" (APPROX)

SECT #8 BASIN

LKG INBD

1" = 10'-0"



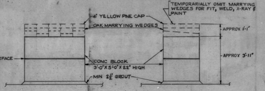
℄ SHIP & BASIN
MAXIMUM HALF BREADTH MLD 52'-11"
APPROX 13'-1" TO ℄ RAIL
UPPER DK
BARGE DK
CABIN DK
MAIN DK
SECT FR 64
BARGE DK
LOWER DK
RUNWAY #4 EL+22.00'
RUNWAY #3
LOWER DK
BOW TRUSTER TUNNEL FR 27
FR 28
STGR 6-A
FR 43
FR 46
FR 52
FR 58
30"X 5/8" WEB 12"X 1" FC ℞
EL 0.00'
INNER BOT EL-7.00'
L-1 L-2 L-3 L-4 L-5 L-6 L-7 L-8 L-9 L-10 L-11 L-12 L-13 L-14
FR 64
BATTER SHORES FORWARD TO SUIT HULL SHAPE
EL-18.00'
8'-9¾"
19'-4¾"
29'-11¾"
37'-11"

SECT #8 BASIN

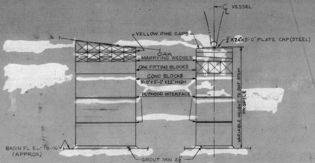
LKG OUTBD

1" = 10'-0"

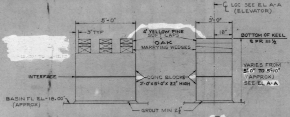
GENERAL DYNAMICS, QUINCY APRIL., 1974 8X
MA NO. GD NO. 30240-01x2 FRAME 56789


TEMPORARIALLY OMIT MARRYING WEDGES FOR FIT, WELD, X-RAY & PAINT
4" YELLOW PINE CAP
OAK MARRYING WEDGES
APPROX 1'-1"
APPROX 3'-11"
PLYWOOD INTERFACE
CONC BLOCK 3'-0"X5'-0"X22" HIGH
MIN 2½" GROUT

KEEL BLOCK TYPE Ⓓ
½" = 1'-0"


℄ VESSEL
YELLOW PINE CAPS
¾"X24"X5'-0" PLATE CAP (STEEL)
OAK MARRYING WEDGES
OAK FITTING BLOCKS
CONC BLOCKS 3'-0"X5'-0"X22" HIGH
PLYWOOD INTERFACE
VARIABLE HEIGHT TO SUIT STEM PROFILE
BASIN FL EL-18.00' (APPROX)
GROUT MIN 2½"

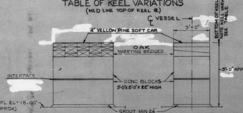
KEEL BLOCKS TYPE Ⓒ
½" = 1'-0"


℄ LOC SEE EL A-A (ELEVATOR)
5'-0"
3" TYP
3'-0"
18"
4" YELLOW PINE SOFT CAPS
OAK MARRYING WEDGES
BOTTOM OF KEEL @ FR 111½
VARIES FROM 5'-0" TO 5'-10" (APPROX) SEE EL A-A
INTERFACE
CONC BLOCKS 3'-0"X5'-0"X22" HIGH
BASIN FL EL-18.00' (APPROX)
GROUT MIN 2½"

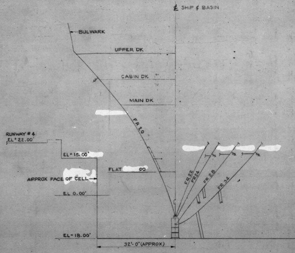
ELEVATOR BLOCKING TYPE Ⓑ
½" = 1'-0"

FLAT KEEL PL THK			
FROM FR	TO FR	WT	THK
101	12" FWD 64	48.45#	1 3/16"
12" FWD 64	12" FWD 61	51.0#	1 1/4"
12" FWD 61	12" AFT 43	56.1#	1 3/8"
12" AFT 43	12" FWD 40	51.0#	1 1/4"
12" FWD 40	30	48.45#	1 3/16"

TABLE OF KEEL VARIATIONS
(MLD LINE TOP OF KEEL PL)

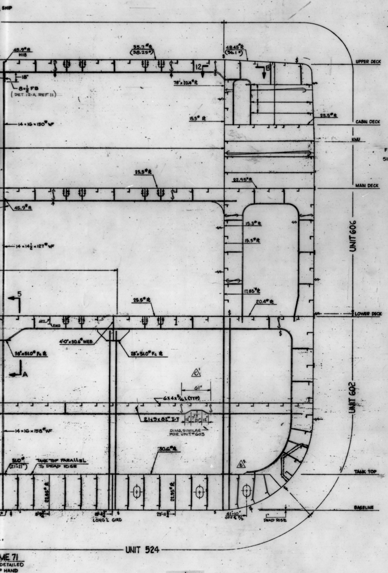

℄ VESSEL
3'-0"
BOTTOM OF KEEL NOTE KEEL VARIATIONS SEE TABLE
4" YELLOW PINE SOFT CAP
OAK MARRYING WEDGES
5'-0" APPROX
INTERFACE
CONC BLOCKS 3'-0"X5'-0"X22" HIGH
BASIN FL EL-18.00' (APPROX)
GROUT MIN 2½"

KEEL BLOCK TYPE Ⓐ
½" = 1'-0"

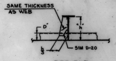

℄ SHIP & BASIN
BULWARK
UPPER DK
CABIN DK
MAIN DK
FR 20
RUNWAY #4 EL+22.00'
EL+15.00'
FLAT 00
APPROX FACE OF CELL
EL 0.00'
EL-18.00'
FR 22
FR 24
FR 28
FR 34
32'-0" (APPROX)

SECT #8 BASIN
LKG INBD
1" = 10'-0"

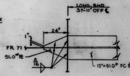
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-511-18-01 GD NO. 30321-30x11 FRAME ① 2 3 4


SHIP
45.9# ℞
H18
35.7# ℞
(38.25#)
48.45# ℞
(56.1#)
UPPER DECK
12
B
18"
8×½ FB
(DET 12-A REF 11)
78"×20.4# ℞
15.3# ℞
14×16×150# WF
25.5# ℞
CABIN DECK
KNU
25.5# ℞
22.95# ℞
MAIN DECK
45.9# ℞
15.3# ℞
15.3# ℞
14×14½×127# WF
UNIT 606
17.85# ℞
5
25.5# ℞
20.4# ℞
LOWER DECK
AFT
FWD
4'-0"×30.6# WEB
38"×51.0# Fc ℞
28"×51.0# Fc ℞
A
C
61"
6X4X5/16 L (TYP)
21×9×82# I-T
12" 21" 12"
DIMS. SIMILAR FOR UNIT #603
14×16×158# WF
UNIT 602
30.6# ℞
51.0#
(21"×21")
TANK TOP PARALLEL TO DEAD RISE
B
TANK TOP
22.95# ℞
22.95# ℞
BASELINE
LONG'L GIRD
29'-11¾"
41'-10" OFF ℄ P/S
1"
DEAD RISE
UNIT 524

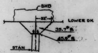
ME 71
DETAILED
P HAND


SAME THICKNESS AS WEB
D
h
h/3
SIM D-20

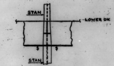
DET 5-F
TRIPPING BRKT
NO SCALE


LONG. BHD 37'-11" OFF ℄
24"
1"
FR 71
51.0# ℞
5/16
12"×51.0# FC ℞
FWD

DET 5-E △B5
STBD SHOWN - PORT SIM
SCALE - ½" = 1'-0"


BHD
32"
LOWER DK
35.7# ℞
45.9# ℞
STAN

SECT 5-D


STAN
LOWER DK
STAN

SECT 5-A △B4

REVISIONS			Q DIV		M A		OWNER	
ZONE	LTR		DATE	APPD	DATE	APPD	DATE	APPD
7-C, 11-C 4-C	C	1. TRANSV. AT 18'-0" FLAT P/S: INDIC OF WEB MOD. ADDED TO SUIT SOOT BLOWER INSTALL. AS REQ'D BY-DEV. OF UNIT 602/603. RES. #1 DELETED.	9/4/73 JK		—		—	

USCG APPL LTR DTD 3/12/70

ABS APPL LTR DTD 5/14/70

REVISIONS			Q DIV		M A		OWNER	
ZONE	LTR		DATE	APPD	DATE	APPD	DATE	APPD
	A	1. PLAN APPVD IN ACCORD WITH JJ HENRY CO LTR 5589/511/AHS-448-69 DATED 12-17-69. 2. FR 71 - CHG WEB PLT THK TO 20.4# BET LWR & MN DK AT LONG BHD 3. ADDED 13-A FOR INSERT PLT IN WAY OF BOX STAN FR 72 SOURCE: ITEM 2 & 3 TO SUIT ITEM 1	JW 1/7/70		–	–	LTR 12-17-69	
16D 16F 19E 7B, 11B 5B 5E 13A, 19B 2-A 10C, 3C	B	1. CHG WGT OF CHOCKS AT ℄ STANCH. AT UPPER & MAIN DKS AT FR 72. 2. REVISED TAPER OF FC ℞ AT MAIN DK OUTBD OF 37'-11" BHD AT FR 72. 3. CHG FB OUTBD OF 37'-11" BHD BELOW I.B. AT L#15 & #16 P/S AT FR 71. 4. SECT 5-A - TAPER ℞ BELOW LOWER DK. 5. DET 5-E - IDENTIFIED 12" FC ℞. 6. FR 72 - FB STIFF BEL I.B. AT LONG. 13-17 REV. INSERT ℞ ADDED IN WAY OF OUTBD STAN & DET 13-A ADDED. 7. ADDED LTR DATES TO ABS & USCG IN TITLE BLOCK. 8. RES #1 ADDED. SOURCE: - ITEMS 1-8 TO SUIT ABS COMMENTS	LJS HF	5/19/70	—		LTR 3/4/70	PTO
SEE ZONE 3 FOR REV "C"								

PRINT DISTRIBUTION

REVISION	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO	12 11 9	1 9 0	2					800		
LYKES								820		
MA (WASH)								826		
MA (YARD)	1	1						829		
JJ HENRY (HOME)								830		
JJ HENRY (YARD)	1	1						841		
ABS	1	1						842		
USCG	1	1						843		
USPHS								844		
Rec'd 899	1	1						899		
								LIB		
871	6	6								
872	6	6								
873										
874	1	1								
875	1	1								
876	2	2								
TDS-866	1	1								
865	1	1								
TOTAL NRO'S FS	23	23								
TOTAL NRO'S HS										
TOTAL Z								TOTAL		

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. ALL MATERIAL TO BE MEDIUM STEEL EXCEPT WHERE NOTED OTHERWISE. ALL STEEL TO BE IN ACCORDANCE WITH ABS SPEC.

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

RESERVATIONS

△C1 △B8 1. ~~TRANSV WEB FR 71 AT 18'-0" FLAT BET LONG. 7 & 10 P/S PENDING RESOLUTION OF INTERFERENCE WITH SOOT BLOWER.~~

MA HULL NO	Q DIV HULL NO	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

MICROFILMED
B 8-6-73

SEA BARGE 'CLIPPER'

NO	TITLE	Q DIV DWG NO	MA DWG NO
10	LONG'L BHD 37'-11" OFF ℄	30332-01×6	241-511-18-20
9	SHELL EXP AFT 64 ABOVE LOWER DK	30351-25×04	511-01-04
8	SHELL EXP AFT 64 BELOW LOWER DK	30351-25×02	511-01-02
7	UPPER DK SCANTLINGS	30343-05×02	511-18-27
6	CABIN DK SCANTLINGS	30343-04×01	511-18-25
5	MAIN DK SCANTLINGS	30343-03×02	511-18-24
4	LOWER DK SCANTLINGS	30343-02×02	511-18-22
3	INNER BOTTOM SCANTLINGS	30343-01×01	511-06-01
2	STD WELDING DETS	30313-01×02	241-529-06-01
1	STD STRUCTURAL DETS	30313-01×01	241-511-17-01

REFERENCES

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC
DESIGN B5-L-M3

Q DIV DWG NO 30321-30×11

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY, MASS 02169

DFTMN RED
DSGNR HF
SUPV XKM
ENGR MK

TRANSV WEB FR 71-72
SCANTLINGS

APPROVED DATE 10/20/69
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO	MARITIME ADMINISTRATION NO	REV
25316	241-511-18-01	C

SCALE: ¼" = 1'-0" & AS NOTED SHEET

APPROVAL LTR DATED
ABS 1/6/70
USCG 1/13/70
USPHS NOT REQ'D

REV	Q DIV CONTR CHG NO	M A	CONTR CHG APPLIC

REV	Q DIV CONTR CHG NO	M A	CONTR CHG APPLIC
0	7	3	18, 19 & 20

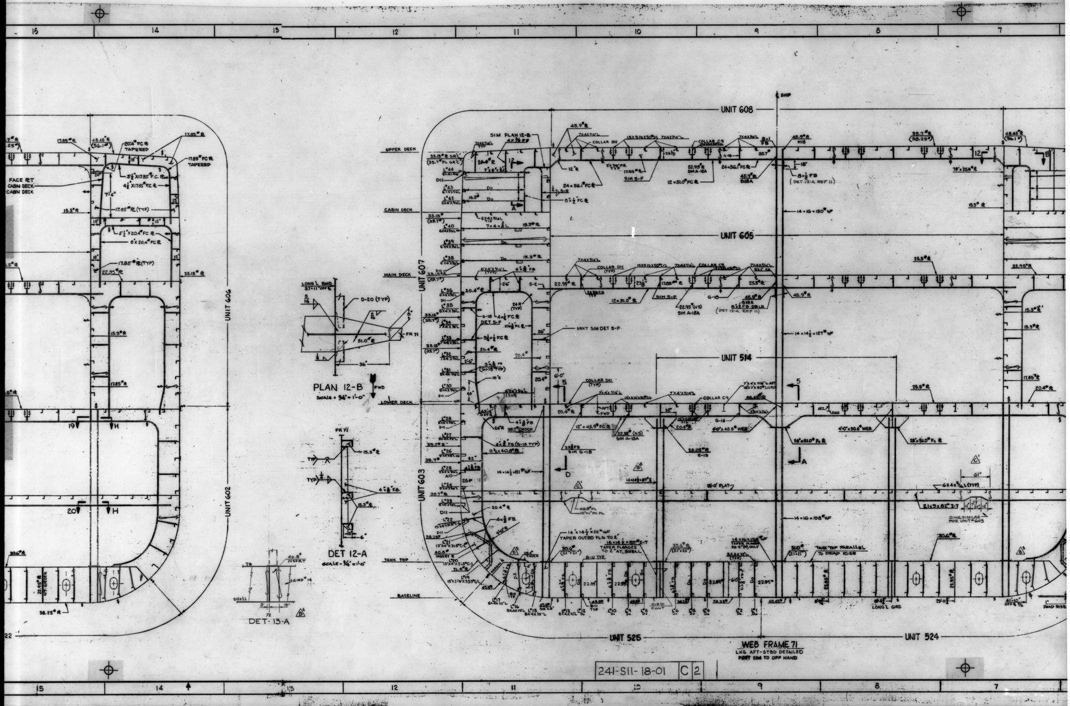
AREA ------- SQ FT

MA DWG NO

Q DIV DWG NO 30321-30X11

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-511-18-01 GD NO. 30321-30x11 FRAME 1 ② 3 4

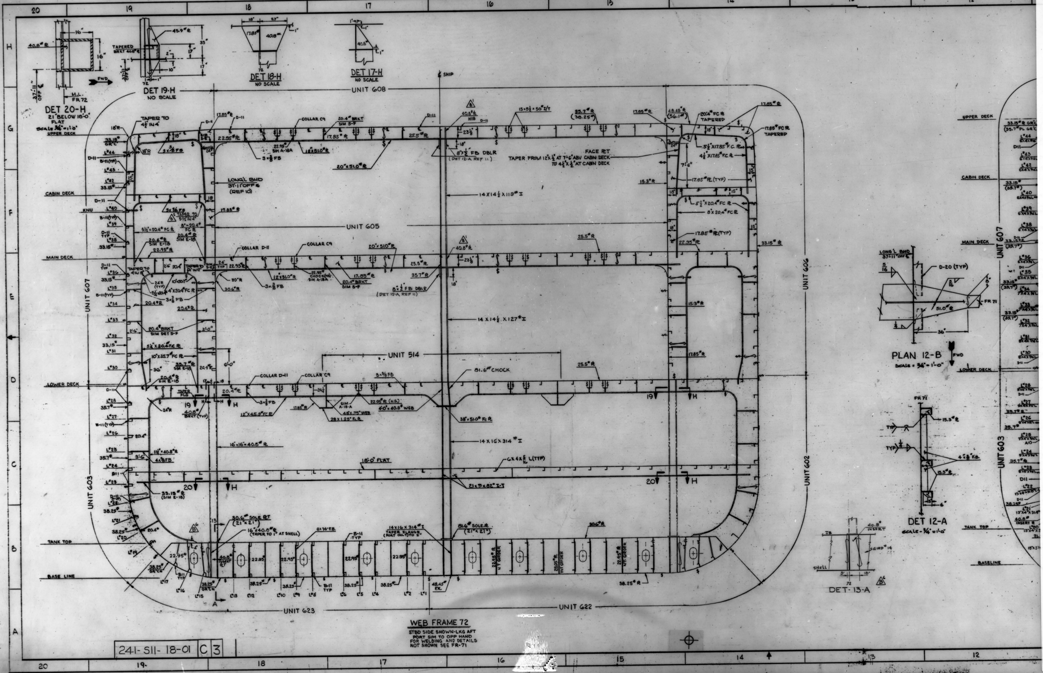

15 14 13 12 11 10 9 8 7
UNIT 608
UNIT 605
UNIT 514
UNIT 607
UNIT 603
UNIT 606
UNIT 602
UNIT 525
UNIT 524
℄ SHIP
UPPER DECK
CABIN DECK
MAIN DECK
LOWER DECK
TANK TOP
BASELINE
FACE PLT CABIN DECK
SIM PLAN 12-B
COLLAR D11
COLLAR C9
14×16×150# WF
14×14½×127# WF
14×16×158# WF
14×14½×111# WF
14×14½×111# WF TAPER OUTBD FLG TO 2"
14×14½×87# T-T TAPER FLANGES TO 2" AT SHELL
12'-0" FLAT
TANK TOP PARALLEL TO DEAD RISE
LONG'L GIRD
DEAD RISE
LONG'L BHD 37'-11" OFF ℄
D-20 (TYP)
FR 71
51.0# ℞
36"
FWD
PLAN 12-B
SCALE = ¾" = 1'-0"
DET 12-A
SCALE - ¾" = 1'-0"
DET-13-A
BRKT SIM DET 5-F
DIMS SIMILAR FOR UNIT 603
6X4X⅜ L (TYP)
4'-0"×40.8# WEB
4'-0"×30.6# WEB
38"×51.0# FC ℞
28"×51.0# FC ℞
24×56.1# FC ℞
12×51.0# FC ℞
45.9# ℞
22.95# ℞
30.6# ℞
17.85# ℞
15.3# ℞
20.4# ℞
25.5# ℞
38.25# ℞
33.15# ℞
35.7# ℞
48.45# ℞

WEB FRAME 71
LKG AFT-STBD DETAILED
PORT SIM TO OPP HAND

241-S11-18-01 | C | 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-511-18-01 GD NO. 30321-30x11 FRAME 1 2 ③ 4



WEB FRAME 72

STBD SIDE SHOWN-LKG AFT
PORT SIM TO OPP HAND
FOR WELDING AND DETAILS
NOT SHOWN SEE FR-71

241-511-18-01 C 3

20
19
18
17
16
15
14
13
12
H
G
F
E
D
C
B
A
DET 20-H
21" BELOW 18'-0" FLAT
SCALE 3/4"=1'-0"
DET 19-H
NO SCALE
DET 18-H
NO SCALE
DET 17-H
NO SCALE
FWD
W.L. FR.72
37'-11" OFF ℄
TAPERED BRKT 40.8# ℞
45.9# ℞
40.8# ℞
℄ SHIP
UNIT 608
UNIT 605
UNIT 606
UNIT 607
UNIT 603
UNIT 514
UNIT 602
UNIT 623
UNIT 622
UPPER DECK
CABIN DECK
MAIN DECK
LOWER DECK
TANK TOP
BASE LINE
KNU
LONG'L BHD 37'-11" OFF ℄ (REF 10)
FACE PL TAPER FROM 12x1 1/2 AT 7'-6" ABV CABIN DECK TO 4 1/2 X 1 1/2 AT CABIN DECK
14 X 14 1/2 X 119# I
14 X 14 1/2 X 127# I
14 X 16 X 314# I
16"x16"x40.8# ℞
15x5 1/2 x 50 3/T
20"x51.0# ℞
12"x51.0# ℞
25.5# ℞
35.7# ℞ (38.25#)
17.85# ℞
22.95# ℞
33.15# ℞
20.4# BRKT SIM 5-F
COLLAR C9
COLLAR D-11
8"x1/2" FB DBLR (DET 12-A REF 11)
81.6# CHOCK
38"x51.0# FC ℞
48"x.75" WEB
40"x40.8# WEB
28x1.25" FC ℞
12"x45.9# FC ℞
18'-0" FLAT
6X4X5/16 L (TYP)
21x9x62# 3-T
30.6# SOLE PL (21"x21")
16"x40.8# ℞ (TAPER TO 1" AT SHELL)
14X16X314# I TAPER FLANGE (PORT ONLY) TO 2"
81.6# SOLE ℞ (21"x21")
30.6# ℞
V.T. GIRDER
48.45# FK.
38.25# ℞
PLAN 12-B
SCALE = 3/4"=1'-0"
D-20 (TYP)
FR 71
51.0# ℞
DET 12-A
SCALE - 3/4"=1'-0"
15.3# ℞
4"x1/2" F.B.
DET-13-A
40.8# INSERT
SHELL
BASELINE

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-02 GD NO. 30323-01X01 FRAME ① 2 3 4

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
18E	E	1. FREEING PORTS, LONG. STIFF. & CHOCK PC 5105 REVISED. THIS INCORP AEA-S-0928-LYKES	LH 11/12/71		—		—	
9-C, 9-D 14-D	F	1. FR. 4,5,15,16 & 17 3"x1/2" F.B. ADDED AT L#39. DET 9-C ADDED TO SUIT. AT REQ OF INSPECTORS REPORT #60677 SHT #5 ITEM #37 THIS INCORP AEA-S-1015-LYKES SOURCE: DES-DEV.	MCB 1/11/72		—			
	G	1. APPLICABLE LYKES 20 ONLY, INTERMITTENT WELDS THRUOUT PLAN CHANGED TO CONTINUOUS WELDS. THIS INCORPS AEA-S-1283-LYKES. SOURCE: SPEC REQM'T.	JW 6/1/72		—			

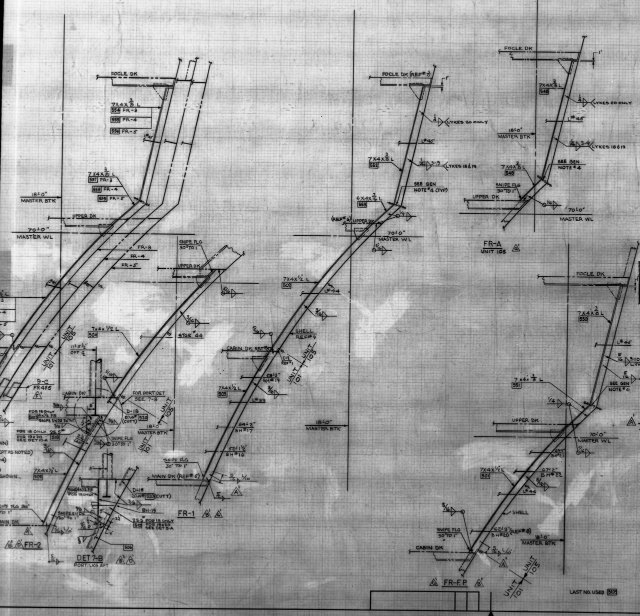
REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
3',6',8',11' 13',15',20'	A	1. SHELL FRS FWD FR 21 AT MN DK MODIFIED AND D-19 TYPE 6 CLIPS DELETED, WELDING CORRECTED TO SUIT ABS APP'L LTR DATED 7/30/70. RES #1 & 2 RELEASED	9/11/70		—	—	LTR DATED 7/29/70	
	B	1. LOCATION OF ERECTION BUTTS CORRECTED TO 3" ABV CABIN DK. MK 566-573, 592-598, 5100 & 5101 DELETED TO SUIT. 2. AT FR2 INDIC OF BH-19 ADDED 3. THIS ALT RELEASES ANDC-S-457.	12/10/70 AJD				9 DEC 70	
18E'	C	1. REV FR 20 & 21 ABV UPPER DK TO SUIT FREEING PORT (REV F OF REF #9) DELETED MK 590 & 591 & ADDED MK 5105 & 5106 THIS REV. RELEASES ANDC'S S-1002-LKS & S-1003 LKS	WFC 7/30/71					
	D	1. FR 2-PC MK 518 & 5103 # IN DET 7-B-PC MK 519 & 5104 MADE APPLICABLE TO HULL 18 ONLY. DET 9A, 9B & 10A ADDED FOR HULL 19 & 20. PC MK 5105, 5106, 5107 & 5108 ADDED TO SUIT. SOURCE:- PCMI #00485	EM'L 9/15/71					

REVISIONS	O	A	B	C	D	E	F	G			
TO	7/1/0	9/22/0	12/10/0	8/2/1	9/15/1	11/12/1	1/11/2	6/1/72			
LYKES		1	1	1	1	1	1	1			
M.A.(WASH)		1	1	1	1	1	1	1			
M.A.(YARD)	1	1	1	1	1	1	1	1			
J.J.HENRY(YARD)	1	1	1	1	1	1	1	1			
J.J.HENRY(HOME)		1	1	2	2	2	2	2			
ABS YD	1	1	1	1	1	1	1	1			
USCG YD	1	1	1	1	1	1	1	1			
USPHS		1	1	—	—						
899 MOB	1										
871	6	6	5	6	6	6	6	5			
872	4	3	2	—							
873											
874	1										
875											
876	2	2	1	—							
TPS 866	1	1				1	1				
LIA BLDG 10		2	2	1	1	1	1	1			
TOTAL NRO'S FS	19	19	18								
TOTAL NRO'S HS				15	15	15	16	14			
TOTAL RO											

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	O	7-1-0	800		4
"	B	12-1-0	820		5
	C	8-3-1	826		12
	D	9-16-1	829		
	E	1-15-1	830		7
	F	1-4-2			
	G	6-2-2	841	X	
			842		
			843		
			844		5
			899		
			LIBRARY		3
			835		1
			840		1
			828		1
			812		1
			812		1
			TOTAL		41

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G							


FOCLE DK
FOCLE DK (REF #7)
7X4X3/8 L
554 FR-3
555 FR-4
556 FR-5
557 FR-3
558 FR-4
559 FR-5
18'-0" MASTER BTK
UPPER DK
70'-0" MASTER WL
FR-3
FR-4
FR-5
SNIPE FLG 30° TO 1
UPPER DK
STGR #44
7x4x1/2 L 504
11'-5 1/2" OFF ℄
UNIT 101
UNIT 105
9-C FR 4 & 5
CABIN DK
FOR PORT DET SEE 7-B
D-18
20 1/2" (CUTT)
520
518
SNIPE FLG 30° TO 1
MASTER BTK
7X4X1/2 L 505
BH-19
D-18 25 1/2 (CUTT)
FOR 18 ONLY
FOR 19 & 20 SEE DET 9-A
519
506
MAIN DK
FR-2
DET 7-B PORT LKG AFT
LYKES 20 ONLY
L#45
LYKES 18 & 19
7X4X3/8 L 552
6X4X7/16 L 553
SEE GEN NOTE #4 (TYP)
UPPER DK (REF #6)
70'-0" MASTER WL
7X4X1/2 L 502
L#44
SHELL REF #9
CABIN DK REF #5
7X4X3/8 L 503
L#39
BH #17
BH #16
MASTER BTK
SNIPE FLG 30° TO 1
MAIN DK (REF #5)
FR-1
7X4X3/8 L 548
7X4X3/8 L 549
SNIPE FLG 30° TO 1
SEE GEN NOTE #4
FR-A UNIT 105
FOCLE DK
7X4X3/8 L 550
L#45
LYKES 18 & 19
7x4x3/8 L 551
LYKES 20 ONLY
UPPER DK
MASTER WL
BH #21
7X4X1/2 L 501
BH #22
L#44
SHELL
SNIPE FLG 30° TO 1
BH #20
CABIN DK
18'-0" MASTER BTK
FR-F.P.
UNIT 101
UNIT 105
LAST NO. USED 5108

GENERAL NOTES

1. FOR STRUCTURAL DETAILS AND ADDITIONAL GENERAL NOTES SEE REFERENCE #1.
2. FOR WELDING DETAILS AND ADDITIONAL GENERAL NOTES SEE REFERENCE #2.
3. ALL UNIT LOCATING DIMENSIONS ARE FROM MASTER FRAME, WATER OR BUTTOCK LINES.
4. ~~BUTT WELDS ARE TO BE IN ACCORDANCE WITH APPROVED FULL~~ PENETRATION BUTT WELDS AS SHOWN ON REF #2 EXCEPT AS NOTED. MANUFACTURING MAY EXCERCISE THE OPTION TO EDGE PREP EITHER SIDE OF PLATE OR SHAPE
5. CORNER SNIPES TO BE 1½" X 1½" UNLESS OTHERWISE NOTED. THEY MAY BE OMITTED WHERE INDICATED ONLY ON THE DWG. THEY MUST BE PROVIDED WHERE DIMENSIONED ON THE DWG.
6. ALL SECTIONS DRAWN STBD LKG FWD, PORT SIM EXCEPT AS NOTED.

RESERVATIONS

A ~~1. CUTS FOR PANAMA CHOCKS & HEADER LOC. PENDING VENDOR INFO.~~
~~2. CUT FOR VIEWING PORT DOOR & HEADER LOC. PENDING VENDOR INFO.~~

243	20	TILLIE LYKES	
242	19	ALMERIA LYKES	
241	18	DOCTOR LYKES	
M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL	

MICROFILMED
G 12-11-72

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

REFERENCES

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
11	RIGGING & OUTBDFITTINGS INCL FDN	30102x 120	—
10	PAINT SCHEDULE	30261-01X1	241-519-01-01
9	SHELL PLATING & STGRS FWD FR 22	30351-25X06	241-511-18-35
8	HAWSE PIPE DETAILS	30613-10X1	241-512-01-01
7	BREASTHOOKS & STEM	30323-01X2	241-511-18-42
6	UPPER, FOC'SLE DKS PLTG FWD FR 22	30343-06X2	241-511-18-45
5	CABIN DK & MAIN DK PLTG FWD FR 22	30343-06X01	241-511-18 44
4	MOORING & WARPING ARR	30615-08X1	241-526-01-03
3	MISC BHDS FWD FR 22	30423-01X01	241-511-05-03
2	STD WELDING DETAILS	30313-01X02	241-529-06-01
1	STD STRUCTURAL DETAILS	30313-01X01	241-511-17-01

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO.
30323-01 X 01

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN WL
DSGNR AJD
SUPV
ENGR M.K.

BOW FRAMING ABV MN DK
FWD FR 22

APPROVED DATE
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS 7/30/70
USCG 7/27/70
USPHS No Resp

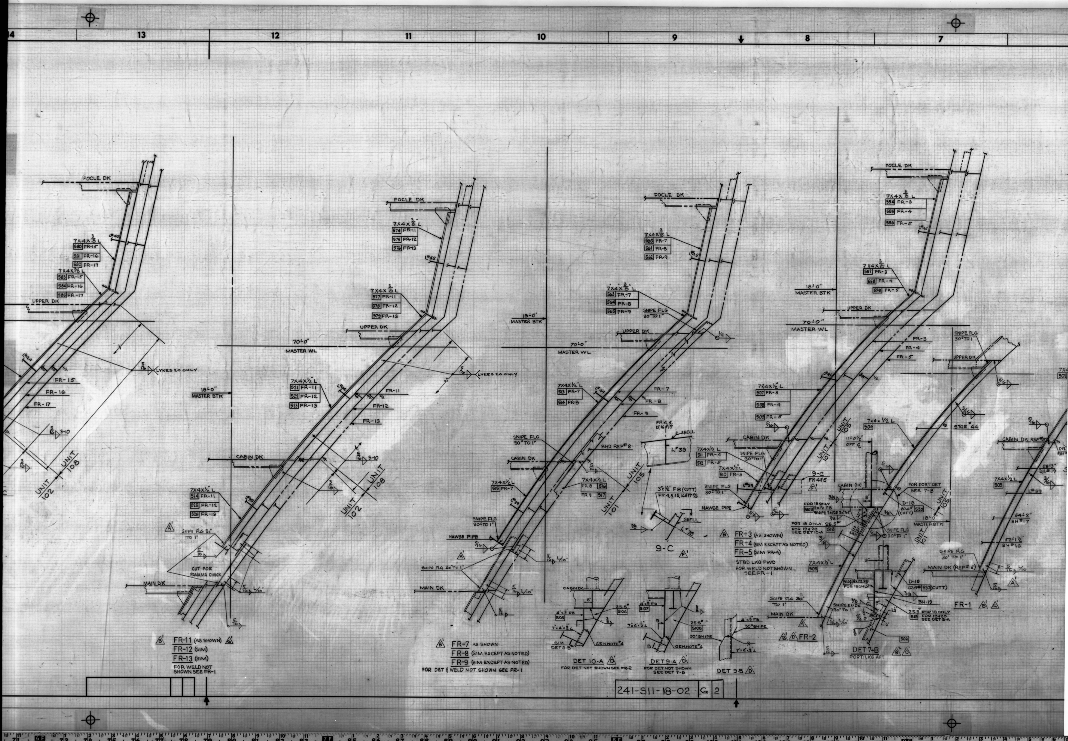
CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-511-18-02	G
SCALE ½"=1'-0" & AS NOTED	SHEET 1 OF 1	

AREA = 33 SQ FT

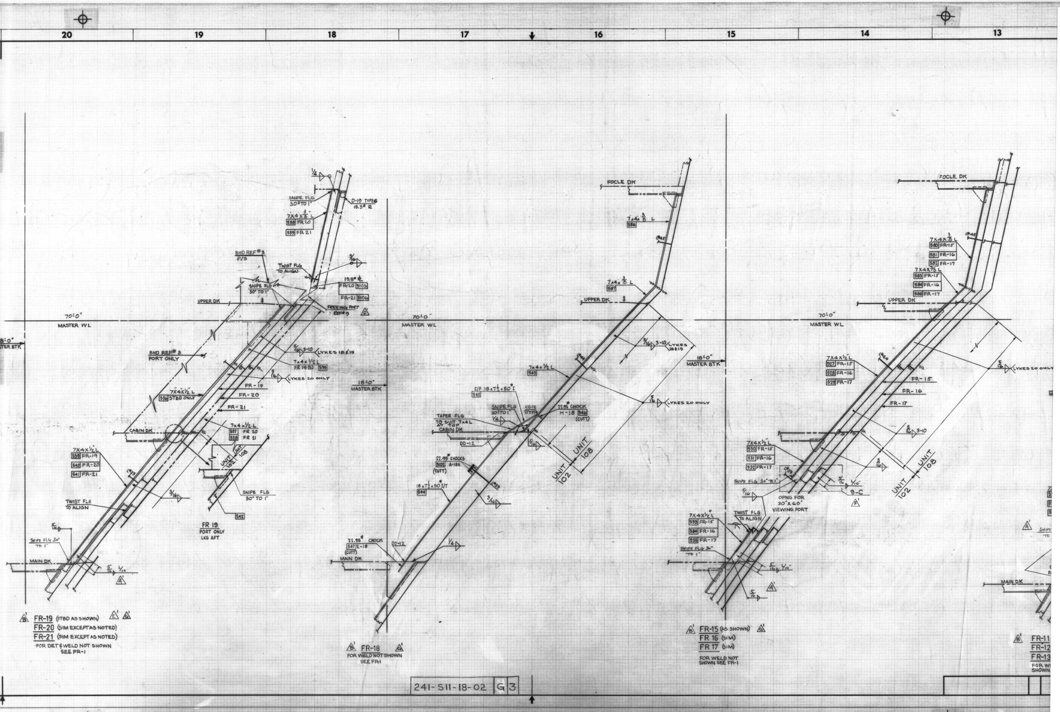
M.A. DWG NO.
DWG. NO. 30323-01X01
Q div DWG NO. 30323-01X01

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-S11-18-02 GD NO. 30323-01×01 FRAME 1 ② 3 4


14
13
12
11
10
9
8
7
FOCLE DK
UPPER DK
CABIN DK
MAIN DK
70'-0" MASTER WL
18'-0" MASTER BTK
7X4X3/8 L
580 FR-15
581 FR-16
582 FR-17
583 FR-15
584 FR-16
585 FR-17
FR-15
FR-16
FR-17
LYKES 20 ONLY
UNIT 102
UNIT 108
574 FR-11
575 FR-12
576 FR-13
577 FR-11
578 FR-12
579 FR-13
7X4X1/2 L
521 FR-11
522 FR-12
523 FR-13
524 FR-11
525 FR-12
526 FR-13
FR-11
FR-12
FR-13
SNIPE FLG 30° TO 1"
CUT FOR PANAMA CHOCK
FR-11 (AS SHOWN)
FR-12 (SIM)
FR-13 (SIM)
FOR WELD NOT SHOWN SEE FR-1
560 FR-7
561 FR-8
562 FR-9
563 FR-7
564 FR-8
565 FR-9
513 FR-7
514 FR-8
515 FR-7
FR 8 516
FR 9 517
FR-7
FR-8
FR-9
HAWSE PIPE
UNIT 101
UNIT 105
FR-7 AS SHOWN
FR-8 (SIM EXCEPT AS NOTED)
FR-9 (SIM EXCEPT AS NOTED)
FOR DET & WELD NOT SHOWN SEE FR-1
FR 4,5 15,16 & 17
SHELL
L 39
BHD REF #8
3/4 x 1/2" FB (CUTT)
FR 4,5 15,16 & 17 P/S
9-C
554 FR-3
555 FR-4
556 FR-5
557 FR-3
558 FR-4
559 FR-5
507 FR-3
508 FR-4
509 FR-5
511 FR-4
512 FR-5
510 FR-3
FR-3
FR-4
FR-5
FR-3 (AS SHOWN)
FR-4 (SIM EXCEPT AS NOTED)
FR-5 (SIM FR-4)
STBD LKG FWD
FOR WELD NOT SHOWN SEE FR-1
9-C FR 4 & 5
7x4x1/2 L 504
11'-5 1/2" OFF ℄
FOR PORT DET SEE 7-B
D-18 20.4# 520 (CUTT)
FOR 18 ONLY 4x1/2 FB SNIPE ENDS 30° TO 1"
FOR 18 ONLY 25.5 FOR 19 & 20 SEE DET 10-A 518
505
506
519
D-18 20.4# (CUTT)
BH-19
25.5 FOR 18 ONLY FOR 19 & 20 SEE DET 9-A
SNIPE ENDS 30° TO 1"
FR-2
DET 7-B
PORT LKG AFT
DET 10-A
FOR DET NOT SHOWN SEE FR-2
DET 9-A
FOR DET NOT SHOWN SEE DET 7-B
DET 9-B
GEN NOTE 4
4"x1/2" FB
7"x4"x1/2" L
30° SNIPE
SIM DET 9-B
SNIPE FLG 30° TO 1"
UPPER DK
STGR 44
CABIN DK REF
503
7X4X1/2 L
54'-2" BH #17
52'-1 1/2" BH #16
58'-9" BH #19
MAIN DK (REF #6)
FR-1
241-S11-18-02 G 2

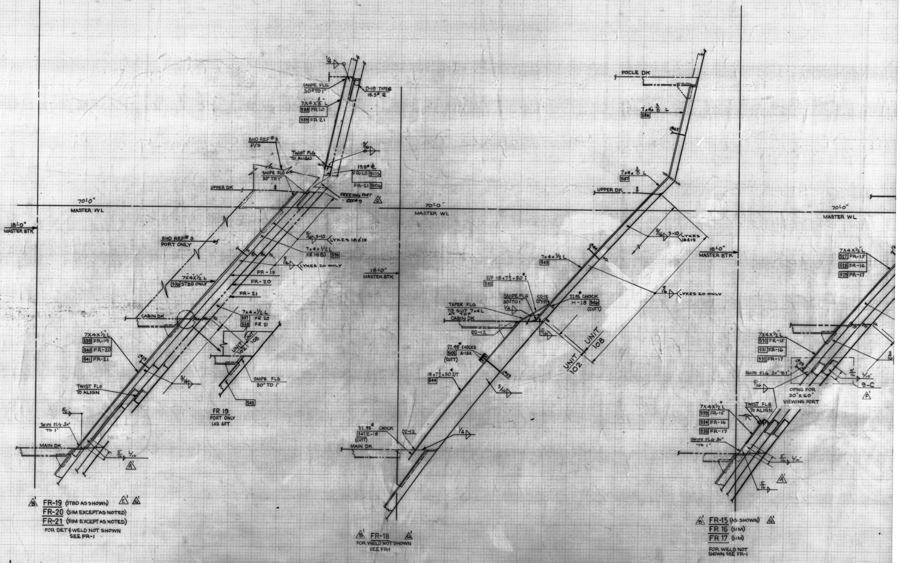
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-02 GD NO.30323-01x01 FRAME 1 2 ③ 4


20
19
18
17
16
15
14
13
1/4
SNIPE FLG 30° TO 1"
D-19 TYPE 6 15.3# PL
7X4X3/8" L
588 FR 20
589 FR 21
5/16
BHD REF #3 P/S
TWIST FLG TO ALIGN.
SNIPE FLG 30° TO 1"
15.3# PL
FR-20 5105
FR-21 5106
UPPER DK
FREEING PORT REF #9
C'
70'-0"
MASTER WL
18'-0"
MASTER BTK
BHD REF #3 PORT ONLY
5/16 3-10 LYKES 18 & 19
7x4x1/2 L
FR 19 (S) 599
5/16 LYKES 20 ONLY
FR-19
FR-20
FR-21
7X4"X1/2" L
536 STBD ONLY
CABIN DK
7x4x1/2 L
537 FR 20
538 FR 21
7X4X1/2" L
539 FR-19
540 FR-20
541 FR-21
UNIT 102
UNIT 108
3/16
SNIPE FLG 30° TO 1"
542
TWIST FLG TO ALIGN
FR 19 PORT ONLY LKG AFT
SNIPE FLG 30° TO 1"
MAIN DK
5/16 1/10
A'
B' FR-19 (STBD AS SHOWN) E' G'
FR-20 (SIM EXCEPT AS NOTED)
FR-21 (SIM EXCEPT AS NOTED)
FOR DET & WELD NOT SHOWN SEE FR-1
FOCLE DK
7x4x3/8 L
586
7x4x3/8 L
587
UPPER DK
70'-0"
MASTER WL
5/16 3-10 LYKES 18 & 19
18'-0"
MASTER BTK
7x4x1/2 L
543
C/F 18x7 1/2x50# I
545
SNIPE FLG 30° TO 1"
CC-12 (TYP)
22.95# CHOCK H-18 546 (CUTT)
TAPER FLG TO SUIT 7x4L AT TOP
1/4
CABIN DK
5/16 LYKES 20 ONLY
DD-12
5/16
UNIT 108
UNIT 102
22.95# CHOCKS 5102 A-18A (CUTT)
18x7 1/2x50# I/T
544
3/16
22.95# CHOCK 547 E-18 (CUTT)
DD-12
1/4
MAIN DK
B' FR-18 G'
FOR WELD NOT SHOWN SEE FR-1
FOCLE DK
7X4X3/8 L
580 FR-15
581 FR-16
582 FR-17
7X4X3/8 L
583 FR-15
584 FR-16
585 FR-17
UPPER DK
70'-0"
MASTER WL
18'-0"
MASTER BTK
7X4X1/2" L
527 FR-15
528 FR-16
529 FR-17
5/16 LYKES 20 ONLY
FR-15
FR-16
FR-17
5/16 3-10
7X4X1/2" L
530 FR-15
531 FR-16
532 FR-17
3/16
SNIPE FLG 30° TO 1"
5/16 1/10"
9-C
UNIT 102
UNIT 108
5/16
OPNG FOR 30"X60" VIEWING PORT
F'
7X4X1/2" L
533 FR-15
534 FR-16
535 FR-17
TWIST FLG TO ALIGN
SNIPE FLG 30° TO 1"
5/16 1/10"
A'
5/16
B' FR-15 (AS SHOWN) G'
FR 16 (SIM)
FR 17 (SIM)
FOR WELD NOT SHOWN SEE FR-1
MAIN DK
B' FR-11
FR-12
FR-13

241-S11-18-02 G 3

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

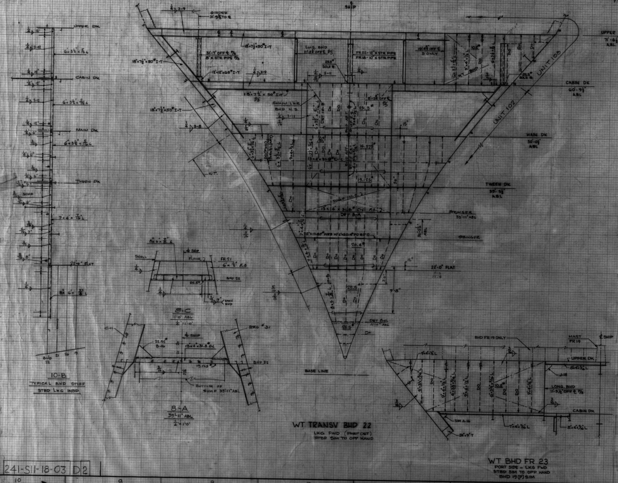
MA NO.241-S11-18-02 GD NO. 30323-01×01 FRAME 1 2 3 ④



21
20
19
18
17
16
15
14
H
G
F
E
D
C
B
A
SNIPE FLG 30:TO 1"
7X4X3/8" L
588 FR 20
589 FR 21
D-19 TYPE 6 15.3# ℞
BHD REF # 3 P/S
TWIST FLG TO ALIGN
5/16
13.3# ℞
FR-20 5105
FR-21 5106
SNIPE FLG 30° TO 1"
UPPER DK
FREEING PORT REF # 3
70'-0" MASTER WL
18'-0" MASTER BTK
BHD REF # 3 PORT ONLY
5/16 3-10 LYKES 18 & 19
7x4x1/2 L FR 19 (S) 590
5/16 LYKES 20 ONLY
FR-19
FR-20
FR-21
7X4X1/2 L
536 STBD ONLY
CABIN DK
7x4x1/2 L
537 FR 20
538 FR 21
UNIT 102
UNIT 108
7X4X1/2 L
539 FR-19
540 FR-20
541 FR-21
TWIST FLG TO ALIGN
3/16
SNIPE FLG 30° TO 1"
542
FR 19 PORT ONLY LKG AFT
SNIPE FLG 30° TO 1"
MAIN DK
5/16 1/10
A'
FR-19 (STBD AS SHOWN)
FR-20 (SIM EXCEPT AS NOTED)
FR-21 (SIM EXCEPT AS NOTED)
FOR DET & WELD NOT SHOWN SEE FR-1
18'-0" MASTER BTK
70'-0" MASTER WL
FOCLE DK
7x4x3/8 L
586
7x4x3/8 L
587
UPPER DK
5/16 3-10 LYKES 18 & 19
18'-0" MASTER BTK
7x4x1/2 L
543
C/F 18x7 1/2x50# I
545
SNIPE FLG 30:TO 1
1/4
CC-12 (TYP)
22.95# CHOCK H-18 546 (CUTT)
5/16 LYKES 20 ONLY
TAPER FLG TO SUIT 7x4 L AT TOP
CABIN DK
DD-12
5/16
UNIT 102
UNIT 108
22.95# CHOCKS A-18A (CUTT)
18x7 1/2x50 I/T
544
3/16
22.95# CHOCK
547 E-18 (CUTT)
DD-12
1/4
MAIN DK
FR-18
FOR WELD NOT SHOWN SEE FR-1
70'-0" MASTER WL
7X4X1/2 L
527 FR-15
528 FR-16
529 FR-17
7X4X1/2 L
530 FR-15
531 FR-16
532 FR-17
SNIPE FLG 30° TO 1"
5/16
OPNG FOR 30"x60" VIEWING PORT
1/10
9-C
A'
7X4X1/2 L
533 FR-15
534 FR-16
535 FR-17
TWIST FLG TO ALIGN
SNIPE FLG 30° TO 1"
5/16 1/10
5/16
A'
FR-15 (AS SHOWN)
FR 16 (SIM)
FR 17 (SIM)
FOR WELD NOT SHOWN SEE FR-1

241-S11-18-02 G 3

GENERAL DYNAMICS, QUINCY
MA NO. 241-S11-18-03 GD NO. 30331-11x01 FRAME ① 2 3 4
NOV. 1973 10X



GIRDER 31'-9½" TO ℄
℄ SHIP
UPPER DK
CABIN DK
MAIN DK
TWEEN DK
UPPER DK 71'-6½" ABL
CABIN DK 60'-9½" ABL
MAIN DK 50'-0" ABL
TWEEN DK 39'-3½" ABL
STRINGER 33'-11" ABL
STRINGER
22'-0" FLAT
UNIT 102
UNIT 103
CHAIN LKR BHD N.S.
LNG BHD
BASE LINE
10-B
TYPICAL BHD STIFF
STBD LKG INBD
8-C
11'-0" ABL
8-A
33'-11" ABL
BOTTOM OF SUMP 33'-11" ABL
DET 8-A
DET 8-C
MAST FR 19
BHD FR 19 ONLY
WT TRANSV BHD 22
LKG FWD (PORT DET)
STBD SIM TO OPP HAND
WT BHD FR 23
PORT SIDE - LKG FWD
STBD SIM TO OPP HAND
BHD 19 (P) SIM

241-S11-18-03 D2

ABS - LTR DATED 5/5/70
USCG - LTR DATED 4/13/70
J.J HENRY DATED 4/6/70

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	C CONT.	2. BHD 22-TRANSV DK GIRD AT CABIN DK CHG FROM 18"×7½"×60# I-T TO 18"×7½"×50# I-T, TRANSV DK GIRD ADDED UNDER UPPER DK, STAN ADDED BET CABIN & UPPER DK AT ℄ SHIP & 31'-7" OFF ℄ P/S. 3. IND OF SHELL FRAMING REV TO AGREE WITH REF 4. 4. ITEMS 1-3 IN ACCORD WITH CHG #37.						
	D	1. GIRDER 31'-10" OFF ℄ BELOW UPPER DK P/S CHG'D TO 31'-9½" TO ALIGN WITH BARGE PEDISTAL. 2. COLLAR REMOVED AT OUTBD LONG'L GIRDER (S) BELOW UPPER DK TO AGREE WITH REF #5. 3. PANEL STIFF OUTBD ABT 6'-6", 19'-0" & 31'-6" ABL INDICATED. 4. WELDING AT DETS 8-A, 8-C & 10-B CORRECTED. 5. ITEMS 3 & 4 ARE IN ACCORD WITH ABS APPL LTR 5/5/70. 6. PERIPHERY WELD OF BHD MADE CONT INWAY OF 16.575# PLT INWAY OF SHELL & MAIN DK.	[illegible]	[illegible]			25 JUN 1970	[illegible]

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. PLAN REV'D APPROVED BY J.J. HENRY LTR OF FEB 6, 1970, FILE 5589/S11/AHS-53-70.	2/12/70	[illegible]	–	–	LTR DTD 2/6/70	
USCG APP'L REV "B" PER LTR 3/12/70 J.J. HENRY APP'L LTR 3/23/70	B	1. BHD 22 (S) BET CABIN & UPPER DK REVISED FROM NT TO WT. 2) BUTT IN BHD PL BELOW 22'-0" FLAT RELOCATED TO 9'-8" BELOW BUTT 12" ABV 22'-0" FLAT TO SUIT MATL. 3) DET 8-C REVISED FROM 8×6×7/16 L TO 8×6×7/8 L TO AGREE WITH MATL. 4. ADDITIONAL STIFFENERS ADDED BET. CABIN DECK & TWEEN DK IN WAY OF CHAIN LKR.	2/24/70	[illegible]			LTR DTD 3/23/70	
	C	1. BHD 22 & 23 - IND OF LONG. DK GIRD REV AT MN, CABIN & UPPER DK TO AGREE WITH REF 5, 6 & 7, 9"×4"×½" L'S ADDED IN WAY OF SAME, BHD 23 DETAILED TO CLARIFY.	3/31/70	[illegible]			23 JUN 1970	[illegible]

← REV "C" CONT.

REVISIONS TO	O	A	B	C	D
			2/20/70	4/1/70	6/25/70
LYKES					
M.A.(WASH)					
M.A.(YARD)			1	1	1
J.J.HENRY(YARD)			1	1	1
J.J.HENRY(HOME)					
ABS			1	1	1
USCG			1	1	1
USPHS					
Reed 899			1	1	1
871			5	9	9
872			6	6	4
873					
874			1	1	1
875					
876			2	2	2
TDS PG6			1	1	1
865			1	1	
TOTAL NRO'S FS			21	25	22
TOTAL NRO'S HS					
TOTAL RO					

2-M
1-K
2-D

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	C	4-8-0	800		
			820		5
			826		12
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIBRARY		5
			535		1
			LOUD 820		1
			840		1
			CANNON 514		1
			DRISCER 514		1
			LINSON		1
			TOTAL		27

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. ALL MATERIAL TO BE M.S. EXCEPT WHERE NOTED OTHERWISE. ALL STEEL TO BE IN ACCORD WITH A.B.S. SPEC.
4. SCANTLINGS & PLATING HAVE BEEN SIZED IN ACCORD. WITH DESIGN CRITERIA BASED ON A HEAD 4.25' ABV THE MAIN DK.

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
D 5-10-73
D 11-9-73

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
8	SCANTLINGS LOWER DK FWD	30343-02X01	S11-18-21
7	SCANTLINGS MAIN DK FWD	30343-03X01	S11-18-23
6	SCANTLINGS CABIN DK FWD FR 34	30343-04X01	S11-18-25
5	SCANTLINGS UPPER DK FWD	30343-05X01	S11-18-26
4	SHELL EXP FWD 64 ABV LOWER DK	30351-25X02	S11-01-02
3	SHELL EXP FWD 64 BEL LWR DK	30351-25X01	S11-01-01
2	STD WELDING DETS	30313-01X02	S29-06-01
1	STD STRUCTURAL DETS	30313-01X01	S11-17-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
C	#37		18, 19 & 20

Q div DWG NO. 30331-11X01

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN WEL/A.H.
DSGNR A.H.
ENGR RB/AK

SCANTLINGS
TRANSV BHD 22

APPROVED DATE
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS 5/5/70
USCG 1-30-70

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S11-18-03	D

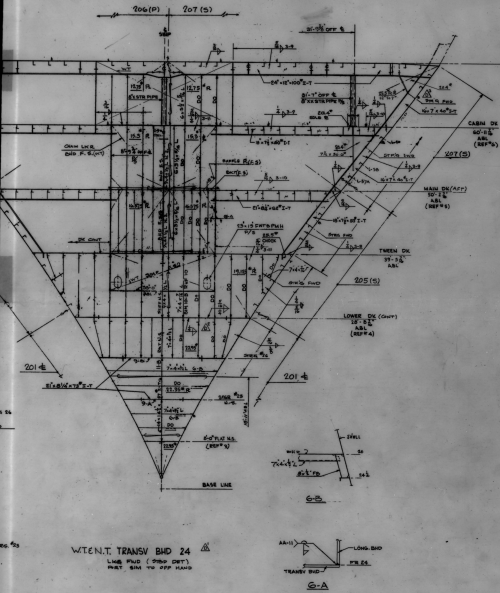
SCALE ¼" = 1'-0" SHEET 1 OF 1

AREA = SQ FT

Q div DWG NO. 30331-11X01

M.A. DWG NO.

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-511-18-04 GD NO. 30331-11×2 FRAME ① 2 3 4


206(P)
207(S)
℄ SHIP
31'-9⅜" OFF ℄
UPPER DK 71'-8 7/16" ABL (REF#7)
CABIN DK 60'-11 7/16" ABL (REF#6)
MAIN DK(AFT) 50'-2 7/16" ABL (REF#5)
TWEEN DK 39'-5 7/16" ABL
LOWER DK (CONT) 28'-8 7/16" ABL (REF#4)
WT
12.75# R
8"X STR PIPE
24"×12"×100# I-T
31'-7" OFF ℄
8"XX STR PIPE P/S
20.4# SOLE ℄
25.5# FC R 12" TO 7"
20.4#
STR'G FWD
16×7×40# I-T
15.3# R
CHAIN LKR BHD F.S.(W.T.)
8'-9¾" OFF ℄ P/S
18"×7½"×60# I-T
7½×30.6#
BAFFLE R (F.S)
BKT(F.S)
L-38
L-37A
16"×7"×40# I-T
16.575# R
21"×8¼"×62# I-T
6-A
23"×15" FWTB PMH P/S
25.5# CHOCK
18"×7½"×50# I-T
STRG FWD
DK CONT
BHD F.S. 9×4×½ L N.S.
6×3½×5/16 L
WT SUMP
33'-0" ABL
19.125# R
7×4×7/16 L
STR'G FWD
205(S)
STIFF N.S. 9×4×½ L
7×4×7/16
SIM 10-B
REF 10
BKT N.S.
7×4×½ L
22.95#
DO
STRG #26
9-B
11-B
201 ℄
7×4×½L 6-B
21"×8¼"×73# I-T
22.95# R
9-A
STGR #23 N.S.
18'-11" ABL
8'-0" FLAT N.S. (REF#3)
BASE LINE
3-8
3-9
3-10
3-11
SHELL
BHD
24
24½
7×4×½"L
8"×½" FB
6-B
AA-11
LONG. BHD
FR 24
TRANSV BHD
6-A

W.T.&N.T. TRANSV BHD 24

LKG FWD (STBD DET)
PORT SIM TO OPP HAND

JJ HENRY LTR 5/6/70
USCG LTR 4/24/70
ABS LTR 4/30/70

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	B	6. STAN BET CABIN & MN DK DEL; STAN ADDED @ ℄ SHIP BET CABIN & UPPER DK; STAN BET UPPER & CABIN DK 27'-4" OFF ℄ RELOC TO 31'-7" OFF ℄ & SIZE CHG TO 8"XX STR PIPE, BRKT BEL SAME REV TO SUIT. RES #2 REL. 7. STIFF BET MN & CABIN DK @ ℄ SHIP CHG TO 9"×4"×½"L. 8. 9"×4"×½"L STIFF ADDED BET LOWER & MN DK @ ℄ SHIP. 9. DET 11-B REV TO SUIT ITEMS ABV. 10. STIFF OUTBD OF ℄ SHIP NOTED AS SIM TO ADDED REF 10. 11. TRANSV BHD WELD CONN @ LONG BHD REV, SECT 6-A ADDED TO SUIT. 12. ITEMS 1-9 ARE IN ACCORD WITH C.C. #31.						
	C	1. BKT OUTBD BEL UPPER DK MODIFIED. 2. TRANSV BEL MN & CABIN DK INWAY OF LONG'L BHD CORRECTED TO AGREE WITH REF #5 & 6. 3. STIFF OUTB BEL TWEEN DK MODIFIED & 6×½ FB CHG'D TO 7×4×7/16"L. 4. RES #1 RELEASED. 5. REVISED BKT BEL OUTBD STAN UNDER CABIN DK TO SUIT ABS. 6. GIRD 31'-10" OFF ℄ BEL UPPER DK P/S CHG'D TO 31'-9⅜" OFF ℄ TO ALIGN WITH BARGE PEDESTAL.	6/11/70		—	—	23 JUN 70	WCH
PANEL 7	D	1. BHD 24 - W.T. DESIGNATION CHANGED TO N.T. & W.T. 2. ADDED WELDING OF BHD TO LOWER DK 3. ADDED BRKT SCANTLINGS AT UPPER DK TO SHELL	6/30/71	F. Roy	—	—	12 JUL 1971	WCH

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	1. THIS PLAN APPROVED PER J.J.HENRY LTR 5589/511/AHS-107-70 DATED 3-9-70	4/8/70		—	—	LTR 3/9/70	DTD
	B	1. TRANSV WEB @ UPPER DK CHG FROM BUILT-UP MEMBER TO 24"×12"×100# I-T & EXTENDED TO SHELL R. 2. TRANSV WEB @ CABIN DK CHG FROM 18"×7½"×50# I-T TO 18"×7½"×60# I-T. 3. TRANSV WEB @ MN DK CHG FROM 24"×9"×94# I-T TO 21"×8¼"×62# I-T. 4. SHELL FR ABV TWEEN DK EXTENDED TO MN DK. 5. INDICATIONS OF DK LONG. ON MN, CABIN & UPPER DK REV TO AGREE WITH REF 5, 6 & 7. ← REV CONT - PANEL 3	7/8/70		—	—	LTR 5/6/70	DTD

REVISIONS TO	O	A	B 4/10/0	C 6/24/0	D 7/22/1
LYKES					1
M.A.(WASH)					1
M.A.(YARD)			1	1	1
J.J.HENRY(YARD)			1	1	1
J.J.HENRY(HOME)					2
ABS			1	1	1
USCG			1	1	1
USPHS					
RESD 899 MOB			1	1	
871			10	10	7
872			6	6	—
873					
874			1	1	
875					
876			2	2	—
TPS 866			1	1	
LIT BLDG 108					1
TOTAL NRO'S FS			25	25	
TOTAL NRO'S HS					16
TOTAL RO					

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	B	4-15-0	800		
			820		5
			826		12
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIBRARY		5
			835		1
			822		2
			840		1
			LIASON		1
			CAMERON 824		1
			DRUCKER 814		1
			LOUD 820		1
			TOTAL		30

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

GENERAL NOTES

1. FOR STRUCTURAL DETAILS AND ADDITIONAL GENERAL NOTES SEE REFERENCE #1.
2. FOR WELDING DETAILS AND ADDITIONAL GENERAL NOTES SEE REFERENCE #2.
3. BUTT AND SEAM WELDS ARE TO BE IN ACCORDANCE WITH APPROVED FULL PENETRATION BUTT WELDS AS SHOWN ON REFERENCE #2, EXCEPT AS NOTED MANUFACTURING MAY EXERCISE THE OPTION TO EDGE PREP EITHER SIDE OF PLATE OR SHAPE.
4. ALL MATERIAL TO BE M.S. EXCEPT WHERE NOTED OTHERWISE ALL STEEL TO BE IN ACCORDANCE WITH A.B.S. SPEC.
5. SCANTLINGS AND PLATING HAVE BEEN SIZED AS A WT BHD IN ACCORDANCE WITH DESIGN CRITERIA BASED ON A HEAD TO THE FREEBOARD DK (MN DK).

RESERVATIONS

1. ~~BHD STIFF 42½' OUTBD OF ℄ BET MAIN & CABIN DK P/S PENDING LOCATION & DETS OF BITTER END CHOCK.~~
2. ~~STANCHIONS & STIFF ON ℄ SHIP ABV MN DK PENDING DEV OF FWD FRAMING DUE TO BARGE LOADS.~~

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
D 5-10-73

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
10	TRANSV BHD 22 - SCANTLINGS -	30331-11×01	241-S11-18-03
9	SHELL EXPAN. FWD 64 ABV LWR DK	30351-25×3	241-S11-01-03
8	SHELL EXPAN. FWD 64 BEL LWR DK	30351-25×1	S11-01-01
7	UPPER DK SCANTLINGS FWD	30343-05×1	-S11-18-26
6	CABIN DK	-04×1	25
5	MAIN DK	-03×1	23
4	LOWER DK	-02×1	21
3	BOW THRUSTER	30776-01×1	541-00-01
2	STD WELDING DETS	30313-01×2	529-06-01
1	STD STRUCTURAL DETS	01×1	S11-17-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
B	31		18, 19, 20

Q div DWG NO. 30331-11×2

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN W.E.L./AH
DSGNR AL
SUPV
ENGR M.K.

SCANTLINGS
TRANSV BHD 24

APPROVED DATE 7/9/70
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS 4-30-70
USCG 3/12/70
USPHS NOT REQ'D

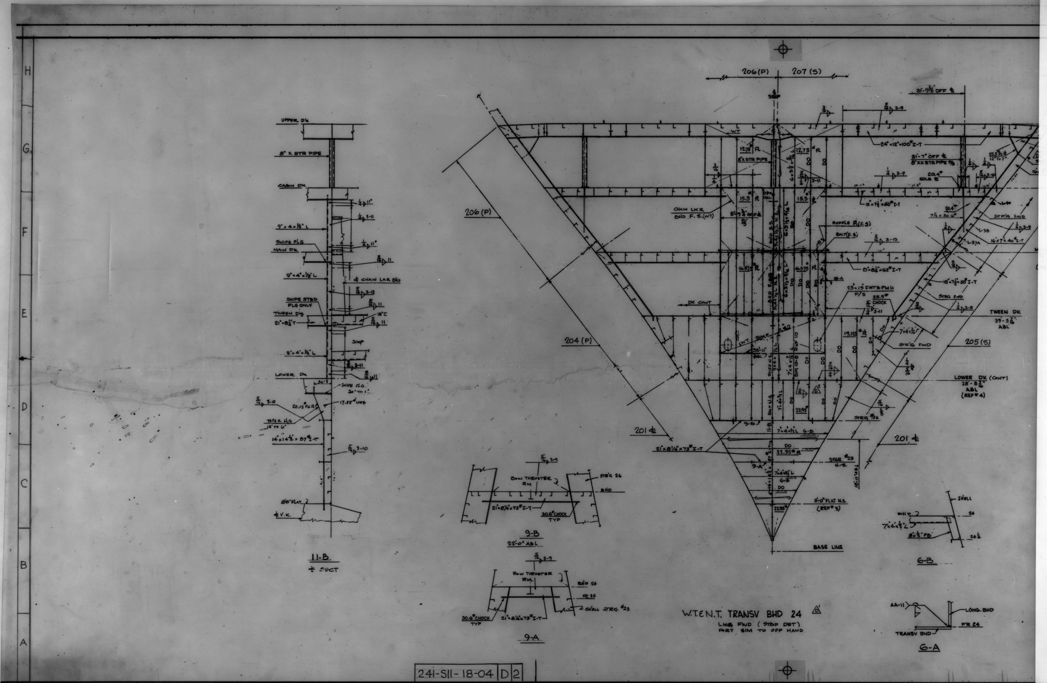
CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S11-18-04	D

SCALE ¼" = 1'-0"
SHEET OF

AREA = SQ FT

DWG. NO. 30331-11×2
Q div DWG NO. 30331-11×2
40×81-112-S11-18-04 M.A. DWG NO.

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-S11-18-04 GD NO. 30331-11x2 FRAME 1 ② 3 4



H
G
F
E
D
C
B
A
UPPER DK
8" X STR PIPE
CABIN DK
9" x 4 x ½" L
SNIPE FLG
MAIN DK
℄ CHAIN LKR BHD
SNIPE STBD FLG ONLY
TWEEN DK
21"x8¼"T
SUMP
LOWER DK
SNIPE FLG. 30" TO 1"
28.05 FCR
17.85 WEB
TAPER FLG 14" TO 6"
14"x14½"x87# I-T
5'0" FLAT
℄ V.K.
11-B
℄ SECT
206(P)
207(S)
SNIP
31'-9⅝" OFF ℄
24"x12"x100# I-T
31'-7" OFF ℄
8"XX STR PIPE P/S
12.75# R
8"X STR PIPE
CHAIN LKR BHD F.S.(WT)
BAFFLE R (F.S)
BKT (F.S)
21"x8¼"x62# I-T
18"x7½"x50# I-T
16"x7"x40# I-T
23"x15 FWT BPMH P/S
DK CONT
TWEEN DK 39'-5 5/16" ABL
STR'G FWD
205(S)
204(P)
LOWER DK (CONT) 28'-8 ⅞" ABL (REF #4)
STRG #26
201 ℄
21"x8¼"x73# I-T
STGR #23 N.S.
8'-0" FLAT N.S. (REF #3)
22.95# R
DO
BASE LINE
BOW THRUSTER RM
STR'G 26
BHD
21"x8¼x73# I-T
30.6# CHOCK TYP
9-B
22'-0" ABL
BHD 24
FR 25
SHELL STRG. #23
9-A
W.T.E.N.T. TRANSV BHD 24
LKG FWD (STBD DET)
PORT SIM TO OPP HAND
SHELL
BHD
7"x4"x½" L
8"x½" FB
24
24½
6-B
AA-11
LONG. BHD
FR 24
TRANSV BHD
6-A
241-S11-18-04 D 2
11
10
9
8
7
6
5

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-05 GD NO. 30331-11x3 FRAME ① 2 3 4

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. PLAN APPV'D IN ACCORD WITH JJ HENRY LTR 5589/511/AHS-70-70 DATED 2-17-70	Jw	2/16/70		—	—	LTR 2-17-70
	B	1. STAN ADDED AT ℄ SHIP BET UPPER & LOWER DK & BET UPPER & TWEEN DK 31'-7" OFF ℄ P/S, SECT. 9-C ADDED TO SUIT. 2. TRANSV GIRD UNDER UPPER DK CHG FROM BUILT-UP MEMBER TO 24"x12"x100# I-T. 3. WEB FR AT SHELL BET UPPER & CABIN DK CHG FROM BUILT-UP MEMBER TO 12"x6½"x36# I-T TO AGREE WITH ADDED REF 9. 4. BHD ADDED BET UPPER & CABIN DK(P) TO AGREE WITH C&A-CABIN DK. 5. ITEMS 1 & 2 ARE IN ACCORD WITH C.C.#31, ITEMS 3&4 - DES DEV.	HF	4/14/70				
	C	1. STAN 31'-7" OFF ℄ P/S ABV CABIN DK CHG'D FROM 8"xx STRG PIPE TO 10"x10"x72# I TO SUIT DEVELOPMENT. 2. GIRD. 31'-10" OFF ℄ BEL UPPER DK P/S CHG'D TO 31'-9⅜" OFF ℄ TO ALIGN WITH BARGE PEDISTAL. 3. GEN NOTE #5 REVISED 4. HORIZ WEB 8-A & WEB ABT 24'-0" ABV BL CHG'D FROM 21"x6"x 20.4/40.8# T TO EQUIVALENT 21"x8¼"x73# I-T. 5. ADDITIONAL PANEL STIFF ADDED TO OUTBD PANEL P/S 12'-0" ABL & CHOCK ADDED AT ℄ OF HORIZ WEB ABT 24'-0" ABV BL. 6. WELDING DET 10-A MODIFIED. 7. ITEM 3 THRU 6 ARE IN ACCORDANCE WITH ABS APP'L LTR DATED APRIL 28, 1970.	GM 7/1/70	7/1/70			23 JUN 1970	

REVISIONS	O	A	B	C
TO		2/17/0	4/17/0	7/1/0
LYKES				
M.A.(WASH)				
M.A.(YARD)		1	1	1
J.J.HENRY(YARD)		1	1	1
J.J.HENRY(HOME)				
ABS		1	1	1
USCG		1	1	1
USPHS				
Reed 899		1	1	1
871		6	12	12
872		6	6	4
873				
874		1	1	1
875				
876		2	2	2
TPS 866		1	1	1
865		1		
TOTAL NRO'S FS		22	27	27
TOTAL NRO'S HS				
TOTAL RO				

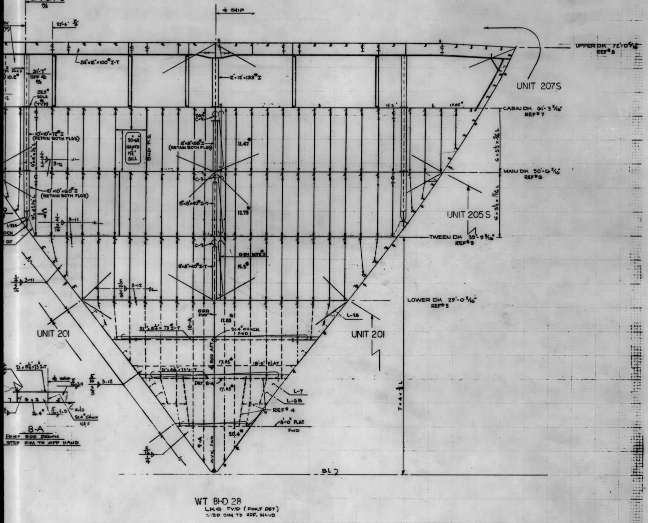
SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
			800		
			820		
			826		
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIBRARY		
			TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

GENERAL NOTES

1. FOR STRUCTURAL DETAILS AND ADDITIONAL GENERAL NOTES SEE REFERENCE #1.
2. FOR WELDING DETAILS AND ADDITIONAL GENERAL NOTES SEE REFERENCE #2.
3. BUTT AND SEAM WELDS ARE TO BE IN ACCORDANCE WITH APPROVED FULL PENETRATION BUTT WELDS AS SHOWN ON REFERENCE #2, EXCEPT AS NOTED MANUFACTURING MAY EXERCISE THE OPTION TO EDGE PREP EITHER SIDE OF PLATE OR SHAPE.
4. ALL MATERIAL TO BE M.S. EXCEPT WHERE NOTED OTERWISE ALL STEEL TO BE IN ACCORDANCE WITH A.B.S. SPEC.
5. SCANTLINGS & PLTG HAVE BEEN SIZED IN ACCORD. WITH DESIGN CRITERIA BASED ON AN OVERFLOW 3'-0" ABV THE MN DK. FOR TANK BELOW LWR DK AND AS WATERTIGHT TO THE MN DK FOR THE PORTION ABV THE LOWER DK.



31'-9⅜" OFF ℄ P/S
27'-4" P/S
℄ SHIP
24"x12"x100# I-T
12"x12"x133# I
UPPER DK 72'-0⅝" REF#8
UNIT 207S
31'-7" OFF ℄ P/S
25.5# SOLE (TYP)
10"x10"x72# I (RETAIN BOTH FLG'S)
30x60 GAWTD 15" SILL
BHD P.S.
8"x8"x58# I (RETAIN BOTH FLG'S)
11.47#
CABIN DK 61'-3⅝" REF#7
MAIN DK 50'-6⅝" REF#6
10"x10"x60# I (RETAIN BOTH FLG'S)
8"x8"x40# I-T
12.75#
UNIT 205 S
TWEEN DK 39'-9⅝" REF#9
GEN NOTE 3
15.3#
8"x8"x40# I-T
LOWER DK 29'-0⅝" REF#5
UNIT 201
UNIT 201
21"x8¼"x73# I-T
10-A
17.85#
20.4# CHOCK FWD
GIRD FWD
BHD AFT
18'-0" FLAT
17.85#
DET 8-A
L-7
L-6B
REF#4
8'-0" FLAT FWD
20.4#
9-A
C.V.K. FWD
7x4x⅜ L
BL
8-A
PORT SIDE DRAWN STBD SIM TO OPP HAND
WT BHD 28
LKG FWD (PORT DET) STBD SIM TO OPP. HAND

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
9	SHELL EXPANSION FWD G4 ABV LWR DK	30351-25x3	511-01-03
8	UPPER DK SCANTLINGS FWD	30343-05x1	511-18-26
7	CABIN DK SCANTLINGS FWD	04x1	511-18-25
6	MAIN DK SCANTLINGS FWD	03x1	511-18-23
5	LOWER DK SCANTLINGS FWD	02x1	511-18-21
4	BOW THRUSTER	30776-01x1	541-00-01
3	LIST OF STEEL DOORS & METAL GATES	30545-16x2	516-2-3
2	STD WELDING DETS	30313-01x2	529-06-01
1	STD STRUCTURAL DETS	30313-01x1	241-511-17-01

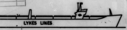
REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
B	#31		18, 19 & 20

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
Q 5-11-73

SEABEE



LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30331-11x3

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN REZ/WEL/AH
DSGNR AH
SUPV
ENGR RB/MKe

SCANTLINGS
WT BHD 28

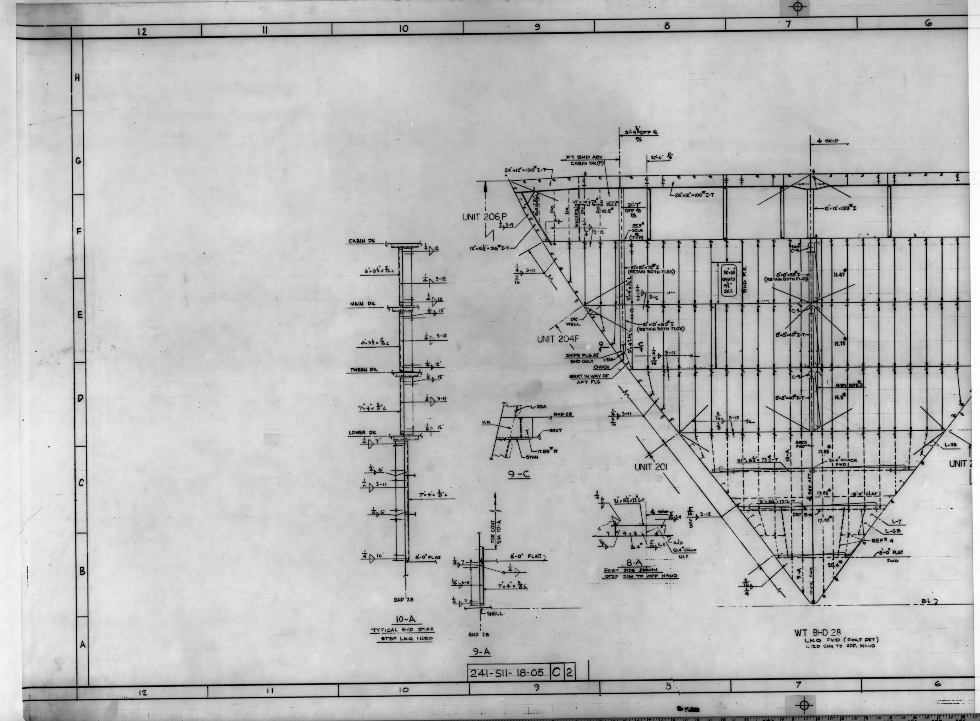
APPROVED DATE 7/2/70
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS 4-28-0
USCG 2-19-0
USPHS No Reqd

CODE IDENT NO. 25316
MARITIME ADMINISTRATION DWG NO. 241-511-18-05
REV C
SCALE ¼" = 1'-0"
SHEET OF
AREA = SQ FT

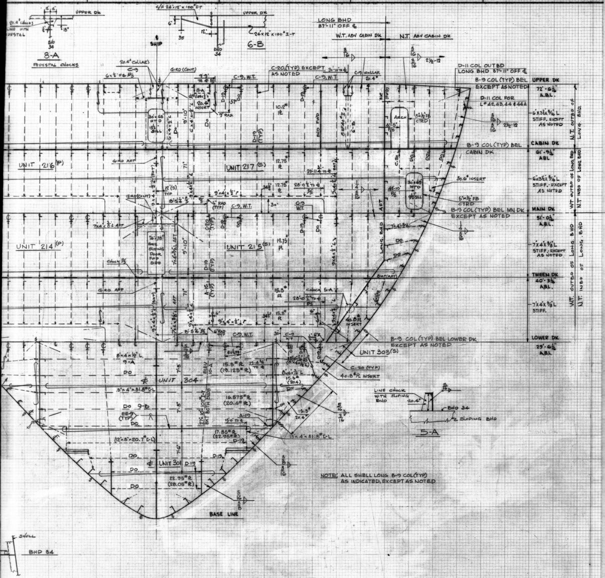
DWG. NO. 30331-11x3
Q div DWG NO. 30331-11x3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S11-18-05 GD NO. 30331-11x3 FRAME 1 ② 3 4



12
11
10
9
8
7
6
H
G
F
E
D
C
B
A
CABIN DK
MAIN DK
TWEEN DK
LOWER DK
6"x3½"x⁵⁄₁₆L
7"x4"x⅜"L
8'-0" FLAT
BHD 28
10-A
TYPICAL BHD STIFF
STBD LKG INBD
FOR CONT SIM 10-A
7"x4"x⅜L
SHELL
9-A
KN
L-33A
BHD 28
BRKT
STAN
17.85# ft
9-C
UNIT 206 P
12"x6½"x36# I-T
24"x12"x100# I-T
FT BHD ABV CABIN DK (P)
31'-9⅝" OFF ℄
27'-4"
31'-7" OFF ℄
25.5# SOLE (TYP)
10"x10"x72# I (RETAIN BOTH FLG'S)
10"x10"x60# I (RETAIN BOTH FLG'S)
30x68 GASKTD 15" SILL
BHD F.S.
℄ SHIP
12"x12"x133# I
8"x8"x58# I (RETAIN BOTH FLG'S)
8"x8"x40# I-T
11.47#
12.75#
15.3#
GEN NOTE 3
UNIT 204F
DR WELL
SNIPE FLG AT BHD ONLY
CHOCK
BRKT IN WAY OF AFT FLG
UNIT 201
21"x8¼"x73# I-T
20.4# CHOCK FWD
17.85#
18'-0" FLAT
GIRD FWD
CVK FWD
9-A
L-7
L-68
L-28
REF 4
8'-0" FLAT FWD
20.4#
BL
UNIT 2
8-A
PORT SIDE DRAWN STBD SIM TO OPP HAND
WT BHD 28
LKG FWD (PORT DET)
STBD SIM TO OPP. HAND
241-S11-18-05 C 2

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-511-18-06 GD NO. 30331-11x04 FRAME ①2 3 4


8-A
PEDESTAL CHOCKS
20.4# CHOCKS
LINE WITH
PEDESTAL
UPPER DK
BHD 34
C/F 24"x12"x100# I-T
24"x12"x100# I-T
6-B
35
℄ SHIP
20.4# COLLAR'S
C-9
6x½" FB P/S
GIRD (CONT.)
9'-9" TO ℄ P/S
C-9, W.T.
C-20 (TYP) EXCEPT AS NOTED
31'-10" TO ℄
C-9 COLLAR 20.4#
LONG BHD 87'-11" OFF ℄
W.T. ABV CABIN DK
N.T. ABV CABIN DK
2½-12
D-11 COL OUTBD LONG BHD 87'-11" OFF ℄
B-9 COL (TYP) BEL UPPER DK EXCEPT AS NOTED
D-11 COL FOR L#42,43,44 & 44A
30"x68" WTD 15½" SILL
20.4# INSERT
9" RAD.
57-DO
10.2# PL
BHD FWD
8WF40# I
ARCH
5"x½" FB CTRD
40'-5" P/S
6"x3½"x5/16" L STIFF. EXCEPT AS NOTED
B-9 COL (TYP) BEL CABIN DK
UPPER DK 72'-6 1/16" A.B.L.
CABIN DK 61'-9 1/16" ABL
MAIN DK 51'-0 1/16" A.B.L.
TWEEN DK 40'-3 1/16" ABL.
LOWER DK 29'-6 1/16" A.B.L.
N.T. OUTBD OF LONG. BHD.
WT OUTBD OF LONG. BHD
N.T. INBD OF LONG. BHD
W.T. OUTBD OF LONG. BHD
N.T. INBD OF LONG. BHD
GIRD AFT
UNIT 216 (P)
UNIT 217 (S)
12.75# PL
29'-11¾" TO ℄
28'-0½" TO ℄ P/S
9"x4"x½" L
12"(S) TYP
8'-5¼" P/S
6" RAD (TYP)
30.6# INSERT
30"x69" WTD 9½" SILL
42'-10" P/S
5"x½" FB CTRD
B-9 COL (TYP) BEL MN DK EXCEPT AS NOTED
6"x3½"x5/16" L STIFF.-EXCEPT AS NOTED
7"x4"x⅜" L AFT
UNIT 214 (P)
UNIT 215 (S)
26"x78" HORIZ SLIDING DOOR FWD SIDE
CHOCK P/S
LONG. BHD
7"x4"x⅜" L STIFF.-EXCEPT AS NOTED
7"x4"x⅜" L STIFF.
BKT (AFT)
A-16 (TYP)
15.3# PL
CHOCK 5-A
40.8# PL INSERT
B-9 COL (TYP) BEL LOWER DK EXCEPT AS NOTED
UNIT 303 (S)
C-20 (TYP)
40.8# PL INSERT
8"x4"x½" L
9-A
DO
℄ UNIT 304
15.3# PL (19.125# PL)
19'-4¾" TO ℄
ELEV 10-A
8"x4"x7/16" L
15.3# (20.4)
3"x4"x31.8# [-L
16.575# PL (20.4# PL)
DO 9-B
EE-9 (TYP)
27"x10"x102# I-T BKT BOTH ENDS
A-19
15'-0" TO ℄
17.85# PL (22.95# PL)
D-19
(12"x3"x20.7# [-L)
13"x4"x31.8# [-L
15.3# 20.4#
℄ UNIT 301
22.95# PL (28.05# PL)
BASE LINE
LINE CHOCK WITH SLOPING BHD
20.4#
BHD 34
SLOPING BHD
5-A
SHELL
BHD 34

NOTE: ALL SHELL LONG B-9 COL(TYP) AS INDICATED, EXCEPT AS NOTED

TRANSV BHD 34

LKG FWD -(STBD) DETAILED
PORT SIM OPP HAND

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	B (CONT)	8. 8WF40# I STIFF BET CABIN & UPPER DK 31'-10" OFF ℄ ADDED & 6x3½ L STIFF INLINE WITH L#12 DELETED. 9. ℄ STIFF BET MN & CABIN DK & LWR & TWEEN DK & STIFF'S 29'-11¾" OFF ℄ P/S BET LWR & CABIN DK CHG'D 10. CHOCKS INWAY OF SLOPING BHD ABOVE LWR DK AND DET 5-A ADDED. 11. GEN. NOTE #5 MODIFIED. 12. WELDING AT PLAN 9-A CORRECTED. 13. INSERT PLT & SECT 5-A DELETED INWAY OF ARCH 40'-5" OFF ℄ P/S BEL CABIN DK AT REQUEST OF J.J. HENRY LTR DATED 2-11-70. 14. ITEMS 10, 11, & 12 TO SUIT ABS COMMENTS LTR DATED 3-16-70. 15. ITEM #9 IN ACCORDANCE WITH C.O. #31.						

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. DRWG APPROVED FOR OWNERS BY J.J. HENRY LTR 5589/511/AHS -50-70 DATED FEB 5, 1970	4/1/70	[illegible]	—	—	LTR	DTD 2/5/70
ABS APPL 7/13/70 USCG APPL 5/13/70	B	1. BUTT 6"(S) BEL UPPER DK CHG'D TO 12"(S) TO FACILITATE ERECTION	4/9/70	[illegible]			LTR	DTD 5/6/70
		2. SHELL STRG 6-A ABT 11'-4" ABV BL P/S MADE CONT. & BKT & PLAN 6-A DELETED. 3. HORIZ. BHD STIFF ABT 18'-6" ABL & PLAN 9-B MODIFIED. 4. OPN'GS IN BHD ABV LWR DK P/S ADDED & OPN'GS ABV MN DK P/S MODIFIED TO SUIT TRANSPORTER. ELEV 10-A CORRECTED TO AGREE. FRM'G INWAY OF SAME MODIFIED RES #1 RELEASED. 5. INSERT PLTS ABV & BEL LWR DK OUTBD OF TRANSPORTER OPN'G & INSERT BET TRANSPORTER OPN'GS P/S ABV LWR DK ADDED. 6. INSERT PLT ABV MN DK OUTBD OF WTD 42'-10" OFF ℄ P/S ADDED. 7. INSERT PLT ℄ SHIP BELOW UPPER DK ADDED. STIFF'S INWAY OF SAME CHG'D FROM (6"x3½"x5/16" L) TO 6"x4"x½" L. CONT (PANEL 3)						

REVISIONS	O	A	B	C
TO			4 20 0	
LYKES				
M.A.(WASH)				
M.A.(YARD)			1	
J.J.HENRY(YARD)			1	
J.J.HENRY(HOME)				
ABS			1	
USCG			1	
USPHS				
899 MOB			1	
TPS 866			1	
871			10	
872			6	
873				
874			1	
875				
876			2	
TOTAL NRO'S FS			25	
TOTAL NRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212 DESIGN ONLY	B		800		
			820		
			826		
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIBRARY		
			TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

GENERAL NOTES

1. FOR STRUCT DETS & ADDITIONAL NOTES SEE REF #1.
2. FOR WELDING DETS & ADDITIONAL NOTES SEE REF #2.
3. ALL MATERIAL TO BE MS EXCEPT WHERE NOTED OTHERWISE ALL STEEL TO BE IN ACCORDANCE WITH ABS SPEC
4. BHD SCANTLINGS & PLATING SHOWN ON THIS DRAWNING HAVE BEEN SIZED USING ALLOWABLE REDUCTIONS FOR SPECIAL COATINGS. WHERE THIS REDUCTION APPLIES, PARENTHESIZED SCANTLINGS & PLATES MEET NORMAL ABS REQUIREMENTS.
5. SCANTLINGS & PLATING HAVE BEEN SIZED IN ACCORDANCE WITH DESIGN CRITERIA BASED ON AN OVERFLOW 3'-0" ABV THE MN DK FOR THE ℄ BALLAST TANK & TO A HEAD 4.25' ABOVE THE MAIN DECK FOR THE WING BALLAST TANKS.

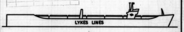
RESERVATIONS

~~1. OPNGS & STRUCT IN WAY OF SAME PENDING RECEIPT OF VENDOR INFO ON SELF PROPELLED TRANSPORTERS.~~

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
B 5-10-73
B 11-12-73

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

Q div DWG NO. 30331-11X04

DFTMN W. WELLS
DSGNR EF/AH
SUPV
ENGR RB

SCANTLINGS
TRANSV BHD 34

APPROVED DATE 1/7/70
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS 3-16-70
USCG 1-30-70
USPHS NOT REQD

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-511-18-06	B

SCALE ¼" = 1'-0" SHEET OF

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
2	STD WELDING DETAILS	30313-01X02	529-06-01
1	STD STRUCTURAL DETAILS	30313-01X01	511-17-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
B	CO 31		

AREA = SQ FT

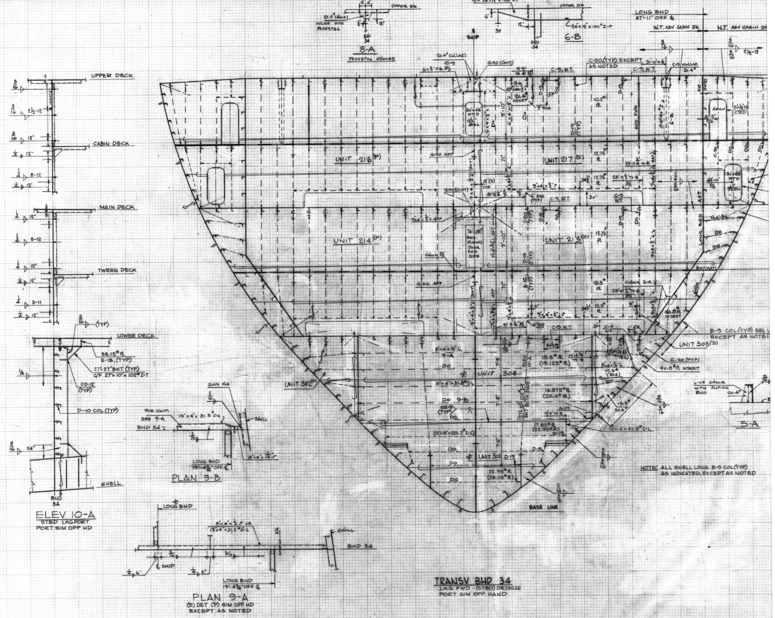
14

DWG. NO. 30331-11X04

M.A. DWG NO. 241-511-18-06

Q div DWG NO. 30331-11X04

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-06 GD NO. 30331-11x04 FRAME 1 ② 3 4

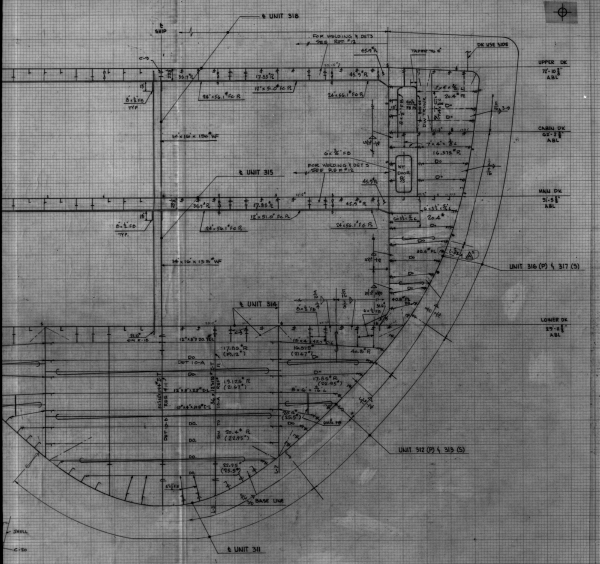

8-A
PEDESTAL CHOCKS
6-B
UPPER DECK
CABIN DECK
MAIN DECK
TWEEN DECK
LOWER DECK
SHELL
UNIT 216(P)
UNIT 217(S)
UNIT 214(P)
UNIT 215(S)
UNIT 302(P)
UNIT 303(S)
UNIT 304
UNIT 301
BASE LINE
5-A
NOTE: ALL SHELL LONG B-9 COL(TYP) AS INDICATED, EXCEPT AS NOTED
ELEV 10-A
STBD LKG PORT
PORT SIM OPP HD
PLAN 9-B
PLAN 9-A
(S) DET (P) SIM OPP HD
EXCEPT AS NOTED
TRANSV BHD 34
LKG FWD - (STBD) DETAILED
PORT SIM OPP HAND

241-S11-18-06 B 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. S241-S11-18-07 GD NO. 30331-11x05 FRAME ① 2 3 4

M.A. DWG NO. S11-18-07

ZONE	LTR	REVISIONS DESCRIPTION	BY	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1 DWG APPROVED FOR OWNER BY J.J. HENRY LETTER 5589/S11/AHS-84-70 DATED FEB 27, 1970.		3/10/70		—	—	LTR 2/27	OF /70
5'		2 SHELL L-33-A INDICATED TO AGREE WITH REF #3							
3'		3 TITLES OF REF #3 & 4 IN LIST OF REF'S CORRECTED.							
		4 ITEMS 2-3 ARE IN ACCORD WITH ITEM #1.							



TRANSV BHD 40

LOOKING FWD

STBD SIDE DETAILED - PORT SIDE SIM UNLESS NOTED
FOR WELDING & DETS BELOW LWR DK NOT SHOWN SEE REF #11
FOR WELDING & DETS ABOVE MN DK NOT SHOWN SEE REF #12

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1.
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2.
3. ALL MATERIAL TO BE M.S. EXCEPT WHERE NOTED OTHERWISE ALL STEEL TO BE IN ACCORD WITH ABS SPEC.
4. BHD SCANTLINGS & PLATING SHOWN ON THIS DRAWING HAVE BEEN SIZED USING ALLOWABLE REDUCTIONS FOR SPECIAL COATINGS, WHERE THIS REDUCTION APPLIES; PARENTHESIZED SCANTLINGS & PLATES MEET NORMAL ABS REQUIREMENTS
5. SCANTLINGS & PLATING HAVE BEEN SIZED IN ACCORDANCE WITH DESIGN CRITERIA BASED ON A HEAD OF 57'-0" ABL FOR THE ℄ FUEL OIL TANK & 4.25' ABV THE MAIN DK FOR THE BALLAST TANKS.

REVISIONS	O	A	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		3/10/70				800		
LYKES						820		
M.A.(WASH)						826		
M.A.(YARD)		1				829		
J.J.HENRY(YARD)		1				830		
J.J.HENRY(HOME)						841		
ABS		1				842		
USCG		1				843		
USPHS						844		
Reed 899		1				899		
						LIBRARY		
871		6						
872		6						
873								
874		1						
875								
876		2						
TPS 866		1						
865		1						
TOTAL NRO'S FS		32						
TOTAL NRO'S HS								
TOTAL RO						TOTAL		

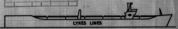
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

A 5-8-73

SEABEE



SEA BARGE CLIPPER

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
12	SCANTLINGS TRANSV BHD 94	30331-11-14	S11-18-16
11	SCANTLINGS TRANSV BHD 58	30331-11x08	S11-18-10
10	SCANTLINGS LONG BHD 37'-11" OFF ℄ Fwd	30332-01-3	S11-18-20
9	SCANTLINGS - LONG BHD 19'-4 3/4" OFF ℄	30332-01-1	S11-18-19
8	SCANTLINGS UPPER DK	30343-05-01	S11-18 26
7	SCANTLINGS CABIN DK	30343-04x01	S11-18-25
6	SCANTLINGS MAIN DK FWD	30343-03-01	S11-18-23
5	SCANTLINGS LWR DK FWD	30343-02-01	S11-18-21
4	SHELL EXP FWD 64 BEL LWR DK	30351-25x01	S11-01-01
3	SHELL EXP FWD 64 ABV LWR DK	30351-25x03	S11-01-02
2	STD WELDING DETS	30313-01-01	S29-06-01
1	STD STRUCTURAL DETS	30313-01x01	S11-17-01

A4

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
0	7	I	18, 17, 20

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30331-11x05

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN WFL/AH
DSGNR AH
SUPV
ENGR RB/M.K.

SCANTLINGS
TRANSV BHD 40

APPROVED DATE 1/30/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	S241-S11-18-07	A

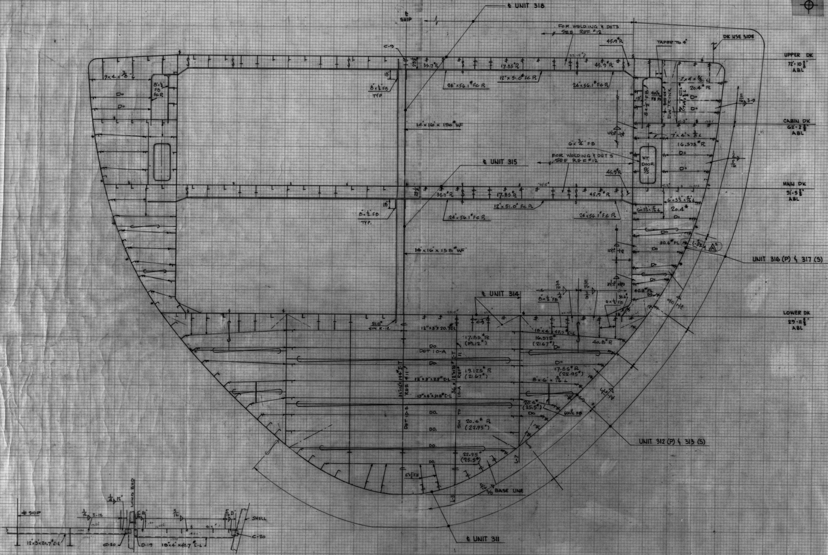
SCALE 1/4" = 1'-0" SHEET OF

APPROVAL LTR DATED
ABS
USCG 3/19/70
USPHS

AREA = SQ FT

Q div DWG NO. 30331-11-05

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. S241-S11-18-07 GD NO. 30331-11x05 FRAME 1 ② 3 4



℄ SHIP
℄ UNIT 318
FOR WELDING & DETS SEE REF #12
DK USE SIDE
TAPER TO 4"
UPPER DK 72'-10 3/8" ABL
CABIN DK 62'-2 5/8" ABL
MAIN DK 51'-5 1/8" ABL
LOWER DK 29'-11 5/8" ABL
C-9
35.7# R
17.85# R
45.9# R
24"x56.1# FC R
12"x51.0# FC R
8x1/2 FB TYP
7x4x3/8 L
8x1/2 FB FC R
D°
14"x16"x 150# WF
6"x3/4" FB
FOR WELDING & DETS SEE REF #12
WT DOOR
20.4# R
16.575# R
℄ UNIT 315
8x1/2" FB TYP.
14"x16"x 158# WF
UNIT 316 (P) & 317 (S)
℄ UNIT 314
12"x3"x 20.7 C-L
17.85# R (17.12#)
16.575 (21.67#)
40.8# R
DET 10-A
19.125# R (21.67#)
17.85# R (22.95#)
12"x3"x 23# C-L
13"x4"x 31.8# C-L
20.4# R (25.5#)
20.4# R (22.95#)
22.95# (25.5#)
UNIT 312 (P) & 313 (S)
BASE LINE
℄ UNIT 311

℄ SHIP
SHELL
12"x3"x20.7# C-L
C-20
D-19
18"x4"x 42.7# C-L
C-20

DET 10-A

TRANSV BHD 40

LOOKING FWD

STBD SIDE DETAILED - PORT SIDE SIM UNLESS NOTED
FOR WELDING & DETS BELOW LWR DK NOT SHOWN SEE REF #11
FOR WELDING & DETS ABOVE MN DK NOT SHOWN SEE REF #12

241-S11-18-07 A 2

GENERA

1. FOR STRUCT DETS
2. FOR WELDING DETS
3. ALL MATERIAL TO BE OTHERWISE ALL STEEL
4. BHD SCANTLINGS & HAVE BEEN SIZED US FOR SPECIAL COATI APPLIES; PARENTHESI MEET NORMAL ABS
5. SCANTLINGS & PLAT ANCE WITH DESIGN OF 57'-0" ABL FOR TH THE MAIN DK FOR

NO.	TITLE	
12	SCANTLINGS TRANSV	16
11	SCANTLINGS TRANSV	10
10	SCANTLINGS LONG B	-20
9	SCANTLINGS - LONG BH	19
8	SCANTLINGS UPPER	26
7	SCANTLINGS CABIN	25
6	SCANTLINGS MAIN DK	23
5	SCANTLINGS LWR DK	11
4	SHELL EXP FWD 64 BEL L	01
3	SHELL EXP FWD 64 ABV L	2
2	STD WELDING DETS	01
1	STD STRUCTURAL DETS	1

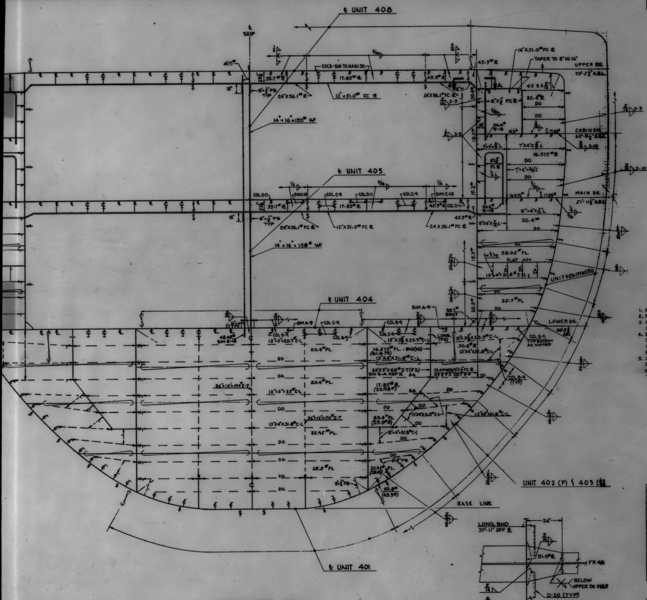
R

REVISIONS

ZONE	LTR	DESCRI

REV	Q div CONTR CHG NO.	M.A.	CONTR CH APPLIC

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-511-18-08 GD NO. 30331-11x06 FRAME ① 2 3 4



℄ UNIT 408
℄ SHIP
UPPER DK. 73'-5½" A.B.L.
CABIN DK. 62'-8½" A.B.L.
MAIN DK. 51'-11½" A.B.L.
LOWER DK. 30'-5" ABL
COL'S - SIM TO MAIN DK.
14"X51.0# FC ℞
TAPER TO 8" IN 16"
45.9# ℞
35.7# ℞
17.85# ℞
12"×51.0# FC ℞
24"X56.1# ℞
24"X56.1# FC ℞
8"×½" FB TYP
14"×16"×150# WF
14"×16"×158# WF
4"X3X5/16" L
8"X½" FC ℞
20.4# ℞
DO
7"x4"x3/8" L
16.575# ℞
8"X4"X7/16" L
28.05# PL.
FLAT AFT
13"x4"x31.8# C-L
35.7# PL
℄ UNIT 405
COL D-11
SIM C-10
COL C-9
℄ UNIT 404
SIM A-9
COL B-9
35.7# BRKT
48.45# SIM E-18
12"x3"x20.7# C-L
20.4# PL.
15"X3⅜"X33.9# C-L
16.575# PL. - BHD(NS) (21.675)
13"X4"X31.8# C-L
24"X9"X68# I-T(FS) SIM 9-A REF ℞
20.4# WEB/8"X½" FC ℞ NS & FS DET 9-F
36"x12"x194# I-T
12"x3"x25# C-L
17.85# ℞ (22.95#)
20.4# PL. (25.5# ℞)
36"x12"x170# I-T
22.95# PL.
25.5# PL
22.95# PL. (28.05)
8"x½" FB
40.8# (45.9#)
COL B-9 TYP EXCEPT AS NOTED
COL B-9 (TYP)
UNIT 406(P) 407(S)
UNIT 402 (P) & 403 (S)
BASE LINE
℄ UNIT 401
LONG. BHD 37'-11" OFF ℄
24"
51.0# ℞
FR 46
BELOW UPPER DK ONLY
D-20 (TYP)
FWD

TRANSV BHD 46
LKG FWD
STBD SIDE DETAILED.- PORT SIDE SIM UNLESS OTHERWISE NOTED
FOR DET & WELDING NOT SHOWN SEE BHD 58, REF 11

PLAN 4-A (S) SHOWN (P) SIM
¾" = 1'-0"

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	1. PLAN APPROVED IN ACCORD. WITH J.J.HENRY LTR 5589/511/AHS-89-70, DATED 3-3-70. 2. 3½"×½" FB ADDED AT DET 9-F.	3/4/70	[illegible]	—	—	LTR 3/3/70	[illegible]
	B	1. CORRECTED SIZE OF BHD STIFF BET CABIN & MN DK	[illegible]	[illegible]				
	C	1. VERTICAL F.B. ADDED OUTBD OF LONG'L BHD BEL FLAT ADDED INWAY OF LONG'L FRAMING. 2. CORRECTED CHOCK SIZE ABV STAN AT UPP DK						

Perlim
pel —

REVISIONS	O	A	B	C
TO			[illegible]	
LYKES				
M.A.(WASH)				
M.A.(YARD)			1	
J.J.HENRY(YARD)			1	
J.J.HENRY(HOME)				
ABS			1	
USCG			1	
USPHS				
Reed 899			1	
871			6	
872			6	
873				
874			1	
875				
876			2	
TPS PCC			1	
865			1	
TOTAL NRO'S FS			22	
TOTAL NRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
			800		
			820		
			826		
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIBRARY		
			TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

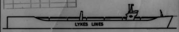
GENERAL NOTES

1. FOR STRUCT DETAILS & ADDL NOTES SEE REF #1.
2. FOR WELDING DETAILS & ADDL NOTES SEE REF #2.
3. ALL MATERIAL TO BE M S EXCEPT WHERE NOTED OTHERWISE ALL STEEL TO BE IN ACCORD WITH ABS SPEC.
4. BHD SCANTLINGS & PLATING SHOWN ON THIS DRAWING HAVE BEEN SIZED USING ALLOWABLE REDUCTIONS FOR SPECIAL COATINGS, WHERE THIS REDUCTION APPLIES, PARENTHESIZED SCANTLINGS & PLATES MEET NORMAL ABS REQUIREMENTS.
5. SCANTLINGS & PLATING HAVE BEEN SIZED IN ACCORDANCE WITH DESIGN CRITERIA BASED ON AN OVERFLOW HGT OF 57'-0" ABL FOR THE ℄ FO TK & A HEAD OF 4.25' ABOVE THE MAIN DK FOR THE BALLAST TANKS.

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
B 5-10-73

SEABEE


LYKES LINES

REFERENCES

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
12	SCANTLINGS-TRANSV BHD 52	30331-11×7	241-S11-18-09
11	SCANTLINGS-TRANSV BHD 58	30331-11X8	241-S11-18-10
10	SCANTLINGS-LONG. BHD 37'-11" OFF ℄ FWD	30332-01X3	241-S11-18-20
9	SCANTLINGS-LONG. BHD 19'-4¾" OFF ℄	30332-01X1	241-S11-19-19
8	SCANTLINGS LOWER DK FWD	30343-02X1	241-S11-18-21
7	SCANTLINGS MN DK FWD	30343-03X1	241-S11-18-23
6	SCANTLINGS CABIN DK	30343-04X1	241-S11-18-25
5	SCANTLINGS UPPER DK FWD	30343-05X1	241-S11-18-26
4	SHELL EXP FWD 64 ABV LOWER DK	30351-25X1	241-S11-01-01
3	SHELL EXP FWD 64 BEL LOWER DK	30351-25X3	241-S11-01-02
2	STD WELDING DETAILS	30313-01X2	241-S29-06-01
1	STD STRUCTURAL DETAILS	30313-01X1	241-S11-17-01

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
0	7	3	17,19,20

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30331-11×06

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN LH
DSGNR HF
SUPV JHM
ENGR RB/ M.K.

SCANTLINGS
TRANSV BHD 46

APPROVED DATE 4/2/70
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS 4-22-70
USCG 2-19-70
USPHS Not Reqd

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S11-18-08	B

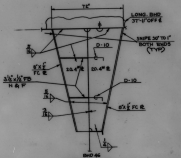
SCALE ¼"=1'-0" & AS NOTED
SHEET 1 OF 1

AREA = 13 SQ FT

M.A. DWG NO. 241-511-18-08
Q div DWG NO. 30331-11X06

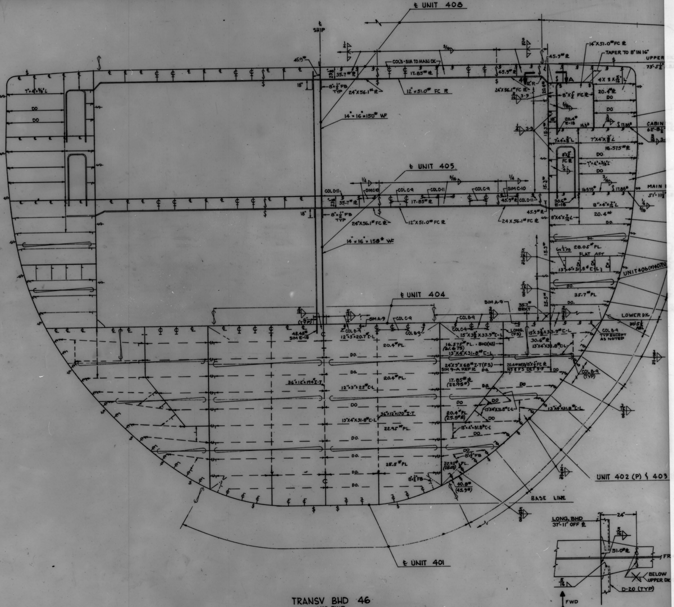
GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-511-18-08 GD NO. 30331-11x06 FRAME 1 ② 3 4



72"
LONG. BHD 37'-11" OFF ℄
SNIPE 30° TO 1" BOTH ENDS (TYP)
D-10
8"X½" FC ℞
20.4# ℞
3½"x½" FB N & F
6"X½" FC ℞
BHD 46

DET 9-F



℄ UNIT 408
℄ SHIP
℄ UNIT 405
℄ UNIT 404
℄ UNIT 401
UNIT 402 (P) & 403
UNIT 406 (P) & 407
14"x16"x150# WF
14"x16"x158# WF
12"x51.0# FC ℞
24"x56.1# FC ℞
35.7# ℞
17.85# ℞
45.9# ℞
14"x51.0# FC ℞
TAPER TO 8" IN 16"
UPPER
73'-5¾"
CABIN
62'-8¾"
MAIN
51'-11½"
LOWER DK.
30'-5¾" ABL
COL'S - SIM TO MAIN DK.
COL D-11
COL C-9
SIM C-10
20.4# ℞
16.575# ℞
7"x4"x⅜" L
8"x½" FC ℞
28.05# PL.
FLAT AFT
13"x4"x31.8# C-L
35.7# PL
35.7# BRKT
SIM A-9
COL B-9
15"x3⅜"x33.9# C-L
30.6# ℞
16.575# PL - BHD (HS)
24"x9"x68# I-T (FS)
SIM 9-A REF 11
36"x12"x194# I-T
36"x12"x170# I-T
12"x3"x22# C-L
20.4# PL.
22.95# PL.
25.5# PL.
40.8# (45.9#)
6"x½" FB
BASE LINE
LONG. BHD 37'-11" OFF ℄
24"
51.0# ℞
BELOW UPPER DK
D-20 (TYP)
FWD

PLAN 4-A (S) SHOWN (P) SIM

¾" = 1'-0"

TRANSV BHD 46

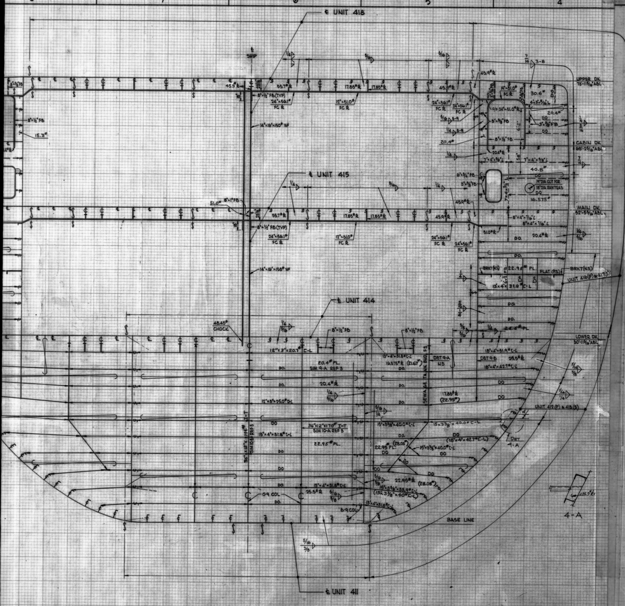
LKG FWD

STBD SIDE DETAILED - PORT SIDE SIM UNLESS OTHERWISE NOTED

FOR DET & WELDING NOT SHOWN SEE BHD 58, REF 11

241-511-18-08	B	2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-09 GD NO. 30331-11×07 FRAME ①2 3 4



8
7
6
5
4
℄ UNIT 418
℄ SHIP
UPPER DK 75'-11 5/16" ABL
CABIN DK 65'-25/16" ABL
MAIN DK 52'-55/16" ABL
LOWER DK 30'-11 5/16" ABL
℄ UNIT 415
℄ UNIT 414
℄ UNIT 411
UNIT 416(P) & 417(S)
UNIT 412 (P) & 413 (S)
14"×16"×150# WF
14"×16"×158# WF
8"×½" FB
8"×½" FB (TYP)
24"×56.1# FC ℞
12"×51.0# FC ℞
35.7# ℞
17.85# ℞
45.9# ℞
40.8#
20.4# ℞
16.575#
22.95# PL
31.8# C-L
FLAT (FR.)
BRKT (N.S.)
48.45# CHOCK
12"×3"×20.7# C-L
SIM 9-A REF 3
DET 9-A N.S.
DET 9-B
18"×4"×42.7# C-L
SEWAGE TANK BHD
36"×12"×170# I-T SIM 10-A REF 3
13"×4"×31.8# C-L
15"×3 3/8"×40.0# C-L
(18"×4"×42.7# C-L)
G9 COL
B-9 COL
DET 4-A
4-A
BASE LINE
DO.

TRANSV BHD 52

LKG FWD

STBD SIDE DETAILED - PORT SIDE SIM UNLESS NOTED,
FOR DET & WELDING NOT SHOWN SEE BHD 58 REF 3.

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
		6. STAN. CHOCKS BELOW UPPER DK CHGD FROM 40.8# TO 45.9#. 7. GEN NOTE #5 MODIFIED. TO SUIT ABS 8. ADDED THICKNESS OF STAN. CHOCKS BELOW MAIN DK. 9. INSERT PLTS ADDED P/S BELOW UPPER & CABIN DKS; PERIPHERY WELDS REV IN WAY OF SAME.						

ZONE	LTR	DESCRIPTION		Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. PLAN APPROVED IN ACCORD. WITH J.J. HENRY LTR 5589/S11/AHS-87-70 DATED 3-2-70. 2. 3½"×½" FB ADDED AT DET 9-B.	HF	3/24/70		—	—	LTR DTD 3/2/70	
	B	1. BHD BET CABIN & UPPER DK REV, STIFF SIZE REV ON STBD BHD, ℞ THK REV ON PORT BHD. 2. IND OF BRKTS ADDED IN LINE WITH FLAT ABV LOWER DECK. FB STIFF. IN WAY OF SAME CHGD FROM 8×½ TO 6×½ & 2 STIFF. DELETED IN WAY OF BRKTS. 3. REV PERIPHERY WELDS TO SHELL BELOW LOWER DK. 4. HORIZ. STIFF. RELOC BETWEEN KNUCKLE OF SEWAGE TANK & SHELL. ADJACENT HDR DELETED. 5. ℄ LONG. AT UPPER DK CHANGED FROM FB TO TEE. (CONT.)	HF JJG	6/11/70				23 JUN 70	

REVISIONS	O	A	B	C
TO		3 23 0	7 8 0	
LYKES				
M.A.(WASH)				
M.A.(YARD)		1		
J.J.HENRY(YARD)		1		
J.J.HENRY(HOME)				
ABS YD		1		
USCG		1		
USPHS				
899 MOB		1		
871		9	9	
872		6	6	
873				
874		1	1	
875		1	1	
876		2	2	
TPS 866		1	1	
868-LA			1	
TOTAL NRO'S FS		25	21	
TOTAL NRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A		800		
			820		
			826		
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIBRARY		
			TOTAL		

GENERAL NOTES

1. FOR STRUCT DETAILS & ADDITIONAL NOTES SEE REF #1.
2. FOR WELDING DETAILS & ADDITIONAL NOTES SEE REF #2.
3. ALL MAT'L TO BE MS EXCEPT WHERE NOTED, OTHERWISE ALL STEEL TO BE IN ACCORDANCE WITH A.B.S. SPECS.
4. BHD SCANTLINGS & PLATING SHOWN ON THIS DRAWING HAVE BEEN SIZED USING ALLOWABLE REDUCTIONS FOR SPECIAL COATINGS. WHERE THIS REDUCTION APPLIES, PARENTHESIZED SCANTLINGS & PLATES MEET NORMAL ABS REQUIREMENTS.
5. SCANTLINGS & PLATING HAVE BEEN SIZED IN ACCORDANCE WITH DESIGN CRITERIA BASED ON AN OVERFLOW HEIGHT OF 57'-0" ABL FOR THE ℄ FUEL OIL TANK & 4.25' ABOVE THE MN DK FOR THE BALLAST TANKS.

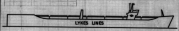
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
B 5-10-73

SEABEE



LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
4.	SCANTLING - TRANSV BHD 94	30331-11×14	-S11-18-16
3.	SCANTLING - TRANSV BHD 58	30331-11×08	-S11-18-10
2.	STD WELDING DETAILS	30313-01×02	-S29-06-01
1.	STD STRUCT DETAILS	30313-01×01	241-S11-17-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
0	7	3	18, 19 & 20

Q div DWG NO. 30331-11×07

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN LJS
DSGNR HF
SUPV
ENGR BB / M.K.

SCANTLINGS
TRANSV BHD 52

APPROVED DATE 2/2/70
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS 4-22-70
USCG 2-19-70
USPHS Not Req

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S11-18-09	B

SCALE: ¼" = 1'-0" SHEET 1 OF 1

AREA = SQ FT

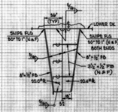
DWG NO. 30331-11×07

M.A. DWG NO. 211-18-09

Q div DWG NO. 30331-11×07

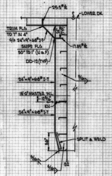
GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-511-18-09 GD NO. 30331-11x07 FRAME 1 ② 3 4



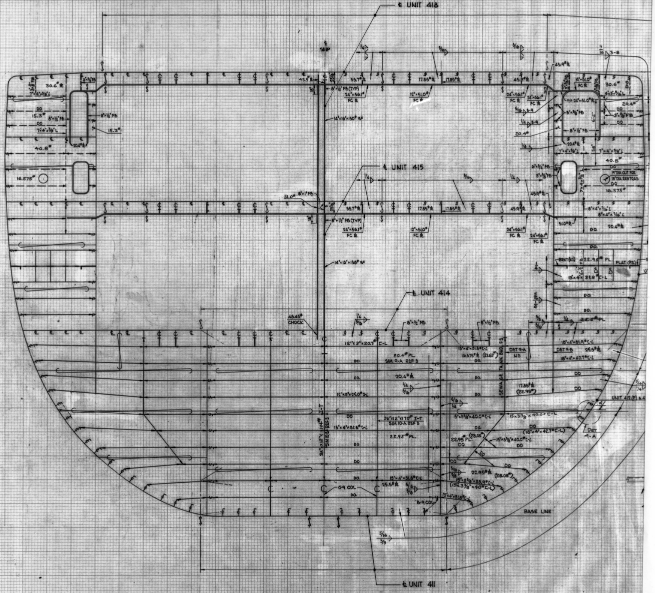
36" (TYP)
5/16
LOWER DK
SNIPE FLG 30° TO 1" (N&F)
SNIPE FLG 30° TO 1" (N&F) BOTH ENDS
8"×1/2" FB
3 1/2"×1/2" FB (N&F)
8"×1/2" FB
20.0# Ⓟ
20.4# Ⓟ
16"
52

DET 9-B



25.5# Ⓟ
LOWER DK
TRIM FLG TO 7" IN 4'
C/F 24"×9"×68# I-T
SNIPE FLG 30° TO 1" (N&F)
DD-12 (TYP)
17.85# Ⓟ
24"×9"×68# I-T
18'-0" MASTER W.L.
24"×9"×68# I-T
SPLIT & WELD
52

DET 9-A



℄ UNIT 418
℄ SHIP
℄ UNIT 415
℄ UNIT 414
℄ UNIT 411
14"×16"×150# WF
14"×16"×158# WF
8"×1/2" FB (TYP)
24"×56.1# FC Ⓟ
12"×51.0# FC Ⓟ
45.9# Ⓟ
35.7# Ⓟ
17.85# Ⓟ
30.6# Ⓟ
15.3# Ⓟ
20.4# Ⓟ
40.8#
16.575#
51.0# Ⓟ
48.45# CHOCK
12"×3"×20.7# C-L
20.4# PL SIM 9-A REF 3
36"×12"×170# I-T SIM 10-A REF 3
15"×4"×31.8# C-L
22.95# PL
15"×3 3/8"×40.0# C-L
18"×4"×42.7# C-L
18"×4"×51.9# C-L
DET 9-A
DET 9-B
BRKT (NS)
FLAT (NS)
22.95# PL
13"×4"×31.8# C-L
6"×4"×7/16" L
7"×4"×3/8" L
14" DIA CUT FOR 15" DIA RAINTGAS
DO
C-9 COL
B-9 COL
UNIT 412 (P) & 4
BASE LINE

TRANSV BHD 52

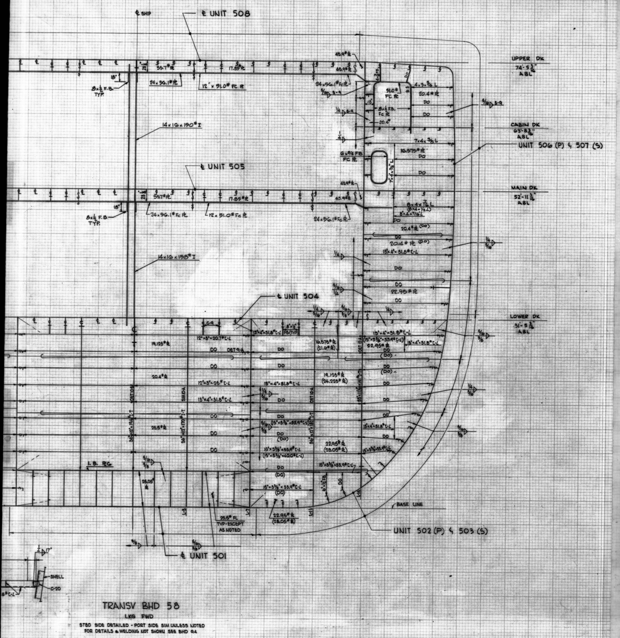
LKG FWD

STBD SIDE DETAILED - PORT SIDE SIM UNLESS NOTED, FOR DET & WELDING NOT SHOWN SEE BHD 55 REF 3.

241-511-18-09 | B | 2

REVISIONS		Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD

REVISIONS				Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION		DATE	APPD	DATE	APPD	DATE	APPD
	A	1. PLAN APPROVED IN ACCORD, WITH J.J. HENRY LTR 5589/S11/AHS-58-70, DATED 2-11-70. 2. VERT STIFF ADDED IN WAY OF DR P/S & ARCH, P. ONLY.	HF	3/20/70		—	—	LTR 2-11-70	DTD


8
7
6
5
4
℄ SHIP
℄ UNIT 508
UPPER DK
74'-5 3/16" ABL
24x56.1# PL
12"x51.0# FC PL
33.7# PL
17.85# PL
8x1/2 F.B. TYP.
45.9# PL
91.0# FC PL
4x3x3/8 L
20.4# PL
DO
8x1/2 F.B. FC PL
6x3/4 F.B. FC PL
14x16x150# I
CABIN DK
63'-8 3/4" ABL
UNIT 506 (P) & 507 (S)
16.575# PL
7x4x3/8 L
℄ UNIT 505
MAIN DK
52'-11 3/4" ABL
24x56.1# FC PL
12x51.0# FC PL
14x16x158# I
20.4# PL (DO)
13"x4"x31.8# C-L
22.95# PL
℄ UNIT 504
LOWER DK
31'-5 3/4" ABL
19.125# PL
12"x3"x20.7# C-L
20.4# PL
12"x3"x25# C-L
13"x4"x31.8# C-L
25.5# PL
19.125# PL (24.225# PL)
22.95# PL (28.05# PL)
15"x3 3/8"x33.9# C-L
(15"x3 3/8"x40.0# C-L)
I.B. PL
28.05# PL
25.5# PL TYP. EXCEPT AS NOTED
22.95# PL (28.05# PL)
BASE LINE
UNIT 502 (P) & 503 (S)
℄ UNIT 501
SHELL
C-20

TRANSV BHD 58
LKG FWD
STBD SIDE DETAILED - PORT SIDE SIM UNLESS NOTED
FOR DETAILS & WELDING NOT SHOWN SEE BHD 94

REVISIONS	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		3 20 0			30212	A		800		
LYKES								820		
M.A.(WASH)								826		
M.A.(YARD)		1						829		
J.J.HENRY(YARD)		1						830		
J.J.HENRY(HOME)		1						841		
ABS YD		1						842		
USCG		1						843		
USPHS								844		
								899		
								LIBRARY		
871		8								
872		6								
873										
874		1								
875										
876		2								
TPS 866		1								
865		1								
TOTAL NRO'S FS										
TOTAL NRO'S HS		25								
TOTAL RO								TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

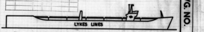
GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1.
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2.
3. ALL MATERIAL TO BE M.S. EXCEPT WHERE NOTED OTHERWISE ALL STEEL TO BE IN ACCORD WITH A.B.S. SPEC.
4. BHD SCANTLINGS & PLATING SHOWN ON THIS DRAWING HAVE BEEN SIZED, USING ALLOWABLE REDUCTIONS FOR SPECIAL COATINGS, WHERE THIS REDUCTION APPLIES; PARENTHESIZED SCANTLINGS & PLATES MEET NORMAL ABS REQUIREMENTS.
5. SCANTLINGS & PLATING HAVE BEEN SIZED IN ACCORDANCE WITH DESIGN CRITERIA BASED ON A HEAD OF 57'-0" ABL FOR THE ℄ FUEL OIL TANK & 4.25' ABOVE THE MAIN DK FOR THE BALLAST TANKS.

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MIC [illegible]
A 5-10-73

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
11	SCANTLINGS - TRANSV BHD 94	30331-11x14	S11-18-16
10	SCANTLINGS - LONG BHD 37'-11" OFF ℄ FWD	30332-01x3	S11-18-20
9	SCANTLINGS - LONG BHD 19'-6 3/4 OFF ℄	30332-01x1	S11-18-19
8	SCANTLINGS LOWER DK FWD	30343-02x01	S11-18-21
7	SCANTLINGS MN DK FWD	30343-03x01	S11-18-23
6	SCANTLINGS CABIN DK	30343-04x01	S11-18-25
5	SCANTLINGS UPPER DK FWD	30343-05x01	S11-18-26
4	SHELL EXP FWD G4 ABV LOWER DK	30351-25x01	S11-01-01
3	SHELL EXP FWD G4 BEL LOWER DK	30351-25x03	S11-01-02
2	STD WELDING DETS	30313-01x01	S29-06-01
1	STD STRUCTURAL DETS	30313-01x01	S11-17-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
A	7	5	18, 19, 20

Q div DWG NO. 30331-11X08

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN LS
DSGNR HF
SUPV
ENGR RB/MK

SCANTLINGS
TRANSV BHD 58

APPROVED DATE R.J. Jackson 1/12/70
FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED
ABS 4-20-70
USCG 2-19-70
USPHS Not Reqd

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	S241-S11-18-10	A

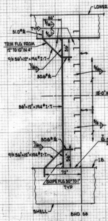
SCALE
SHEET 1 OF 1

AREA = SQ FT

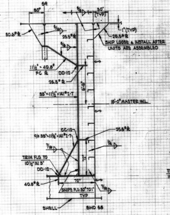
M.A. DWG NO.
Q div DWG NO.

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

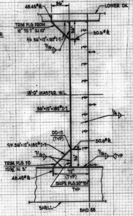
MA NO. S241-S11-18-10 GD NO. 30331-11×08 FRAME 1 ② 3 4


LOWER DK
TRIM FLG FROM 12" TO 10" IN 4'
5/8 36"×12"×194# I-T
30.6# PL
18'-0" MASTER W.L.
36"×12"×194# I-T
51.0# PL
SNIPE FLG 30" TO 1" TYP
SHELL
BHD 58

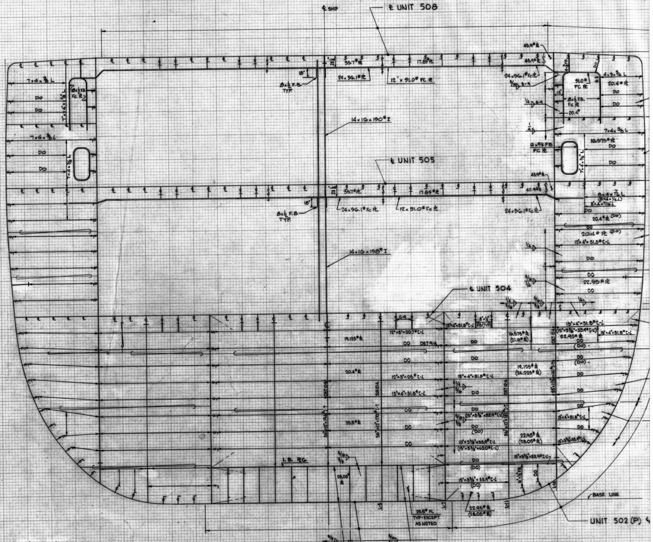
DET 10-B

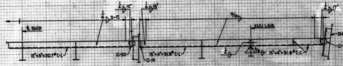

30.6# PL
ILLEGIBLE
SHIP LOOSE & INSTALL AFTER UNITS ARE ASSEMBLED
11½"×40.8# FC PL
DD-12
25.5# PL
33"×11½"×141# I-T
18'-0" MASTER W.L.
CC-12
TRIM FLG TO 10½" IN 3'
40.8# PL
SNIPE FLG 30" TO 1" TYP
SHELL
BHD 58

DET 12-A


48.45# PL
LOWER DK
TRIM FLG FROM 12" TO 7" IN 10'
5/8 36"×12"×182# I-T
30.6# PL
18'-0" MASTER W.L.
36"×12"×182# I-T
DD-12 (TYP)
TRIM FLG TO 10½" IN 3'
48.45# PL
SNIPE FLG 30" TO 1" TYP
SHELL
BHD 58

DET 10-A


℄ SHIP
℄ UNIT 508
℄ UNIT 505
℄ UNIT 504
14×16×190# I
14×16×158# I
24×56.1# FC PL
12"×51.0# FC PL
17.85# PL
7×4×⅜ L
DO
I.B. PL
BASE LINE
UNIT 502 (P)
℄ UNIT 501
25.5# PL TYP - EXCEPT AS NOTED


℄ SHIP
KUU LINE
SHELL
C-20
D-18
12"×5"×20.7# C-L
13"×4"×31.8# C-L

DET 9-A

TRANSV BHD 58

LKG FWD

STBD SIDE DETAILED - PORT SIDE SIM UNLESS NOTED
FOR DETAILS & WELDING NOT SHOWN SEE BHD 94

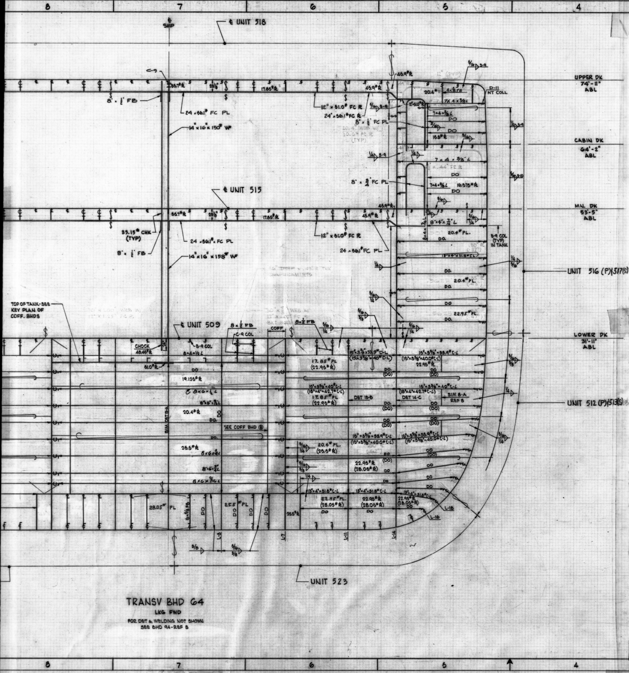
241-S11-18-10	A	2

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-511-18-11 GD NO. 30331-11X09 FRAME ① 2 3 4

M.A. DWG NO. 241-511-18-11

Q div DWG NO. 30331-11X09

REVISIONS						REVISIONS								
ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD	ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
										A	1. PLAN APPVD IN ACCORD WITH JJ HENRY LTR 5589/511/AHS-73-70 DATED 2-19-0	7/20/0		—	—	LTR 2-19-0	



8
7
6
5
4
℄ SHIP
℄ UNIT 518
UPPER DK 74'-11" ABL
CABIN DK 64'-2" ABL
MN. DK 53'-5" ABL
LOWER DK 31'-11" ABL
8" × ½" FB
24 × 58.1# FC PL
14"×16"×150# WF
12" × 51.0# FC PL
24" × 58.1# FC PL
8" × ½" FC PL
20.4# WEB W/ 30.6# FC PL (TYP)
D-11 NT COLL
7×4×3/8 L
DO
8" × ⅜" FC PL
℄ UNIT 515
33.15# CHK (TYP)
8" × ½" FB
24 × 58.1# FC PL
14"×16"×158# WF
12" × 51.0# FC PL
24 × 58.1# FC PL
B-9 COL (TYP) IN TANK
UNIT 516 (P) 517 (S)
20.4# PL
22.95# PL
TOP OF TANK-SEE KEY PLAN OF COFF. BHDS
℄ UNIT 509
8 × ½" FB
C-9 COL
COFF
CHOCK 48.45# PL
B-9 COL
19.125# PL
20.4# PL
25.5# PL
28.05# PL
17.85# PL (22.95# PL)
15"×3⅜"×33.9# L (15"×3⅜"×40.0# L)
DET 13-B
DET 14-C
SIM 8-A REF 3
SEE COFF BHD ⑤
UNIT 512 (P) 513 (S)
20.4# PL (25.5# PL)
22.95# PL (28.05# PL)
15"×4"×31.8# L
L-16
L-18
UNIT 523

TRANSV BHD 64

LKG FWD

FOR DET & WELDING NOT SHOWN SEE BHD 94-REF 3

REVISIONS	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		3/20			30212	A	3-7-0	800		
LYKES							✓	820		5
M.A.(WASH)							✓	826		12
M.A.(YARD)		1						829		
J.J.HENRY(YARD)		1						830		
J.J.HENRY(HOME)								841		
ABS		1						842		
USCG		1						843		
USPHS								844		
Rec dept		1						899		
							✓	LIBRARY		5
							✓	LEB 858		2
								835		1
871		6						840		1
872		6					LOUD	820		1
873							DRUCKER	814		1
874		1						822		2
875							LINSON	LYKES		1
876		2					CAMERON	824		1
TP3 866		1								
865		1								
TOTAL NRO'S FS										
TOTAL NRO'S HS		22								
TOTAL RO								TOTAL		32

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

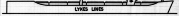
GENERAL NOTES

1. FOR STRUCTURAL DETAILS AND ADDITIONAL GENERAL NOTES SEE REFERENCE #1.
2. FOR WELDING DETAILS AND ADDITIONAL GENERAL NOTES SEE REFERENCE #2.
3. BHD SCANTLINGS & PLATING SHOWN ON THIS DRAWINGS HAVE BEEN SIZED USING ALLOWABLE REDUCTIONS FOR SPECIAL COATINGS. WHERE THIS REDUCTION APPLIES, PARENTHESIZED SCANTLINGS & PLATES MEET NORMAL A.B.S. REQUIREMENTS.
4. ALL MATERIAL TO BE M.S. EXCEPT WHERE NOTED OTHERWISE. ALL STEEL TO BE IN ACCORDANCE WITH A.B.S. SPEC.
5. SCANTLINGS & PLATING HAVE BEEN SIZED IN ACCORDANCE WITH DESIGN CRITERIA BASED ON A HEAD 57'-0" ABL FOR THE ℄ FUEL OIL TANK & A HEAD 4.25' ABOVE THE MAIN DK FOR THE WING BALLAST TANKS.

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MIC
REV A 5-10-73

SEABEE



LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
3	TRANSV BHD 94	30331-11X14	241-511-18-16
2	STANDARD WELDING DETAILS	30313-01X2	241-529-06-01
1	STANDARD STRUCTURAL DETAILS	30313-01X1	241-511-17-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
O	7	3	18,19,20

Q div DWG NO. 30331-11X09

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN LS
DSGNR HF
SUPV
ENGR RB/MK

(SCANTLINGS)
TRANSV BHD 64
& COFF

APPROVED DATE 1/21/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-511-18-11	A

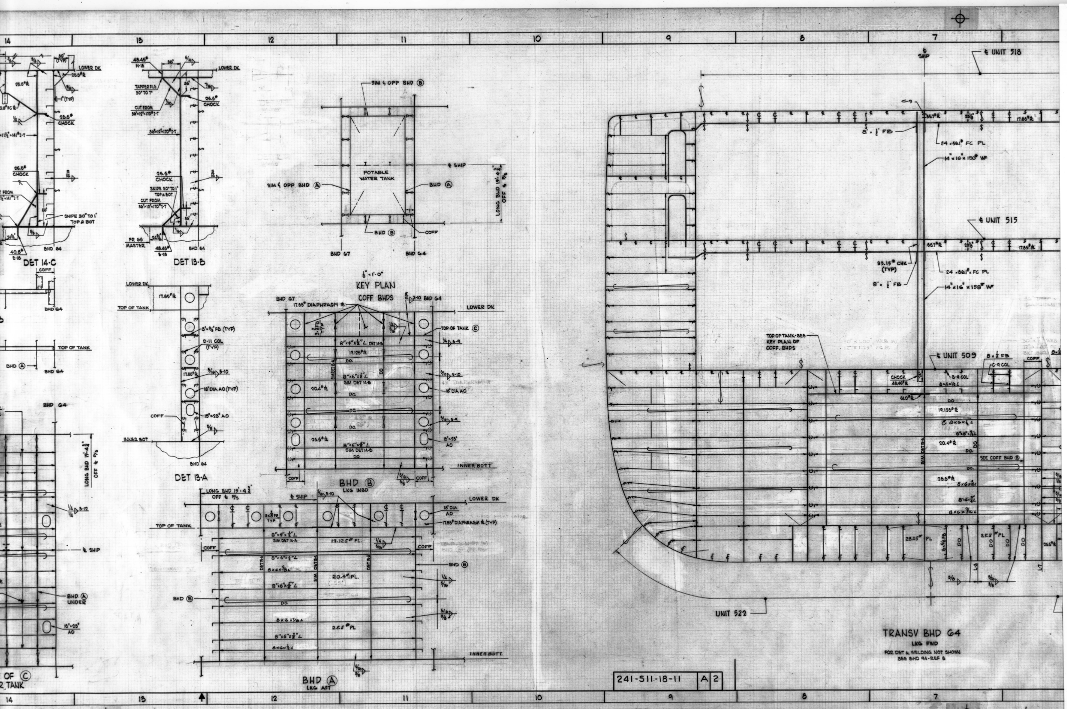
SCALE: ¼"=1'-0" & AS NOTED SHEET OF

APPROVAL LTR DATED
ABS 4-15-70
USCG 2-19-0
USPHS Not Reqd

AREA = SQ FT 18

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-511-18-11 GD NO. 30331-11x09 FRAME 1 ② 3 4

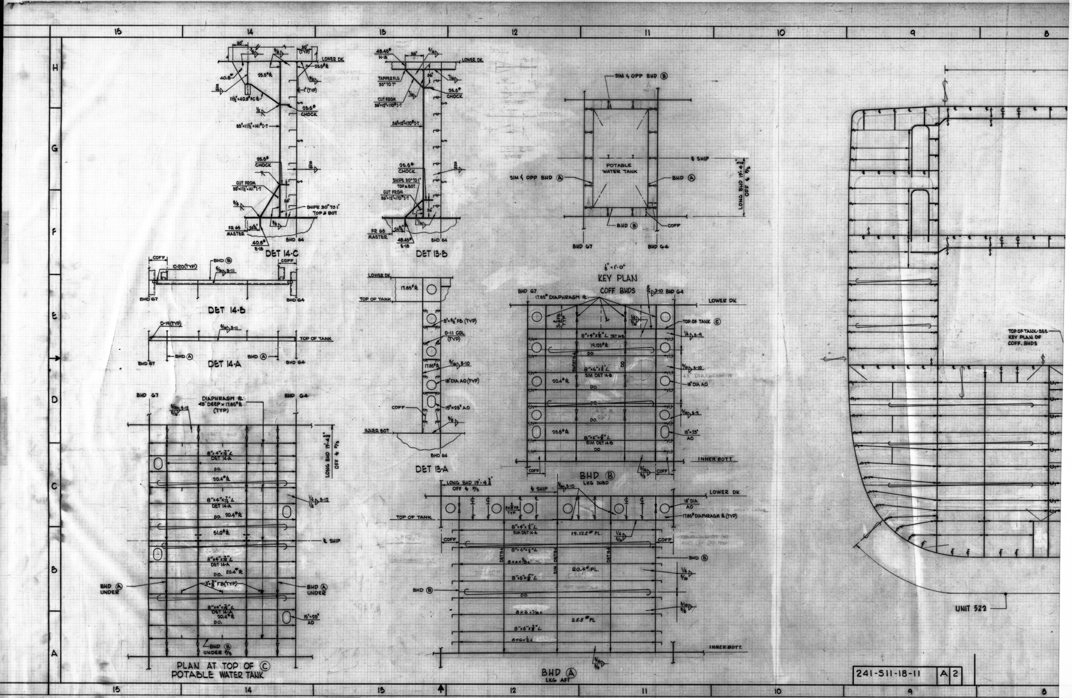


DET 14-C
DET 13-B
LOWER DK
25.5# CHOCK
26.5# CHOCK
TAPPER FLG 30° TO 1"
CUT FROM 36"×12"×170# I-T
SNIPE 30° TO 1" TOP & BOT
BHD 64
FR 65 MASTER
48.45# E-18
SIM & OPP BHD Ⓑ
SIM & OPP BHD Ⓐ
POTABLE WATER TANK
℄ SHIP
BHD Ⓐ
BHD Ⓑ
COFF
BHD 67
BHD 64
LONG BHD 19'-4 3/4" OFF ℄ P/S
KEY PLAN
COFF BHDS
1/8" = 1'-0"
DET 13-A
TOP OF TANK
17.85# ℞
D-11 COL (TYP)
18" DIA AO (TYP)
15"×25" AO
INNER BOT
17.85# DIAPHRAGM ℞
TOP OF TANK Ⓒ
8"×4"×1/2" L DET 14-B
19.125# ℞
20.4# ℞
25.5# ℞
8"×6"×1/2" L SIM DET 14-B
DO.
INNER BOTT.
BHD Ⓑ
LKG INBD
BHD Ⓐ
LKG AFT
8"×4"×1/2" L SIM DET 14-A
19.125# PL
20.4# PL
25.5# PL
8×6×1/2 L
BHD Ⓐ UNDER
℄ UNIT 518
℄ UNIT 515
℄ UNIT 509
UNIT 522
8"×1/2" FB
24×56.1# FC PL
14"×16"×150# WF
14"×16"×158# WF
33.15# CHK (TYP)
TOP OF TANK-SEE KEY PLAN OF COFF. BHDS
CHOCK 48.45# ℞
C-9 COL
SEE COFF BHD Ⓑ
28.05# PL
TRANSV BHD 64
LKG FWD
FOR DET & WELDING NOT SHOWN SEE BHD 94-REF B
14 13 12 11 10 9 8 7

241-511-18-11 A 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

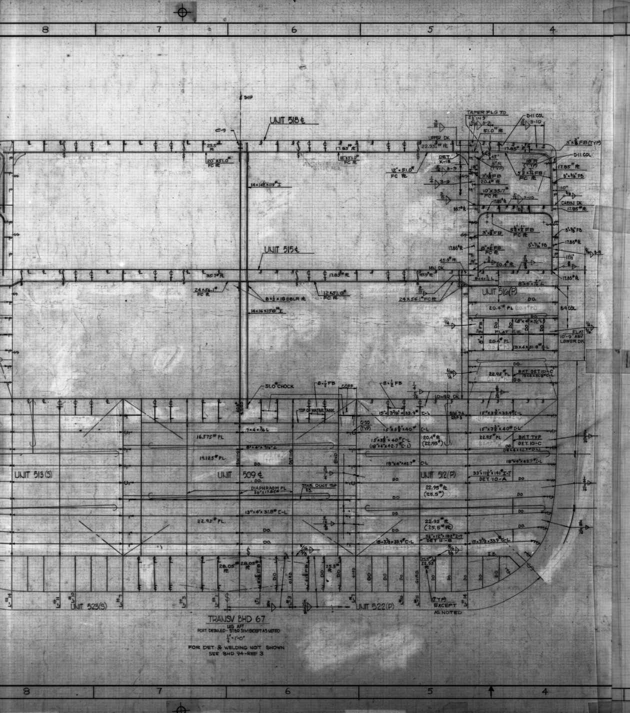
MA NO. 241-511-18-11 GD NO. 30331-11x09 FRAME 1 2 ③ 4



15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A
LOWER DK
25.5# ℞
40.8#
11½"×40.8# FC ℞
25.5# CHOCK
35"×11½"×141# I-T
25.5# CHOCK
CUT FROM 35"×11½"×141# I-T
SNIPE 30° TO 1" TOP & BOT
FR 65 MASTER
40.8# E-18
BHD 64
DET 14-C
48.45# H-18
TAPPER FLG 30" TO 7"
CUT FROM 36"×12"×170# I-T
25.5# CHOCK
36"×12"×170# I-T
SNIPE 30° TO 1" TOP & BOT
48.45# E-18
DET 13-B
SIM & OPP BHD Ⓑ
POTABLE WATER TANK
℄ SHIP
SIM & OPP BHD Ⓐ
BHD Ⓐ
BHD Ⓑ
COFF
LONG BHD 19'-4½" OFF ℄ P/S
BHD 67
BHD 64
COFF
C-20 (TYP)
BHD Ⓑ
DET 14-B
D-19 (TYP)
TOP OF TANK
DET 14-A
17.85# ℞
TOP OF TANK
5"×⅜" FB (TYP)
D-11 COL (TYP)
18" DIA AO (TYP)
15"×25" AO
COFF
INNER BOT
DET 13-A
⅛" = 1'-0"
KEY PLAN
COFF BHDS
17.85# DIAPHRAGM ℞
TOP OF TANK Ⓒ
8"×4"×½" L DET 14-B
19.125# ℞
DO.
20.4# ℞
8"×6"×½" L SIM DET 14-B
25.5# ℞
18" DIA AO
INNER BOTT.
BHD Ⓑ LKG INBD
BHD 67
BHD 64
DIAPHRAGM ℞ 48" DEEP × 17.85# ℞ (TYP)
8"×4"×⅞" L DET 14-A
20.4# ℞
51.0# ℞
℄ SHIP
3"×⅜" FB (TYP)
BHD Ⓐ UNDER
15"×25" AO
BHD Ⓑ UNDER P/S
PLAN AT TOP OF Ⓒ POTABLE WATER TANK
LONG BHD 19'-4½" OFF ℄ P/S
18" DIA AO
17.85# DIAPHRAGM ℞ (TYP)
19.12.5# PL
20.4# PL.
8"×6"×½" L
8×6×⅝ L
25.5# PL
INNER BOTT.
BHD Ⓐ LKG AFT
TOP OF TANK - SEE KEY PLAN OF COFF. BHDS
UNIT 522
241-511-18-11 A 2

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO. 241-S11-18-12 GD NO. 30331-11x10 FRAME ① 2 3 4



8
7
6
5
4
℄ SHIP
UNIT 518 ℄
UNIT 515 ℄
UPPER DK
TAPER FLG TO
D-11 COL
D-11 COL
DET K-18
12"×51.0# FC ℞
20"×51.0# FC ℞
14×16×119# I
14×16×158# I
24×56.1# FC ℞
24×56.1# FC ℞
8×½×18 DBLR ℞
12×51.0# FC ℞
17.85# ℞
35.7# ℞
22.95# ℞
CABIN DK
MN DK
UNIT 516 (P)
20.4# PL
20.4# PL
8×4×½ L
5-9 COL
PLAT F.S.
FLAT 10'-9" ABV LOWER DK
BKT DET 10-C
13×4×31.8# C-L
LOWER DK
51.0# CHOCK
TOP OF WATER TANK
COFF
C-20 (TYP)
16.575# PL
19.125# PL
22.95# PL
UNIT 513 (S)
UNIT 509 ℄
UNIT 512 (P)
DIAPHRAGM PL 36"×17.85#
STAB. DUCT TOP F.S.
15×3⅜×33.9# C-L
15×3⅜×40# C-L
18"×4"×42.7# C-L
13"×4"×31.8# C-L
33"×11½×141# I-T DET 10-A
36"×12¼×182# I-T DET 11-18
BKT TYP DET. 10-C
20.4# ℞ (22.95#)
22.95# ℞ (25.5#)
DO.
I.B.
28.05# ℞
25.5# ℞
UNIT 523 (S)
UNIT 522 (P)
(TYP) EXCEPT AS NOTED

TRANSV BHD 67
LKG AFT
PORT DETAILED - STBD SIM EXCEPT AS NOTED
½" = 1'-0"
FOR DET. & WELDING NOT SHOWN SEE BHD 94 - REF 3

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD

REVISIONS				Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION		DATE	APPD	DATE	APPD	DATE	APPD
	A	1. PLAN APPVD IN ACCORD WITH J.J. HENRY LTR 5589/S11/AHS-92-70, DATED 3-3-70. 2. FB BACK UP STRUCT. ADDED FOR LONG. ON FLAT 10'-9" ABV. LOWER DK.	HF	3/12/70		—	—	LTR 3/3	DATED /70

REVISIONS	O	A	B	C	.							SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		3/18/70													800		
LYKES															820		
M.A.(WASH)															826		
M.A.(YARD)		1													829		
J.J.HENRY(YARD)		1													830		
J.J.HENRY(HOME)															841		
ABS		1													842		
USCG		1													843		
USPHS															844		
Reec 899		1													899		
															LIBRARY		
871		6															
872		6															
873																	
874		1															
875																	
876		2															
TPS 866		1															
865		1															
TOTAL NRO'S FS		22															
TOTAL NRO'S HS																	
TOTAL RO															TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G							

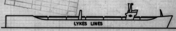
GENERAL NOTES

1. FOR STRUCTURAL DETAILS AND ADDITIONAL GENERAL NOTES SEE REFERENCE #1.
2. FOR WELDING DETAILS AND ADDITIONAL GENERAL NOTES SEE REFERENCE #2.
3. ALL MATERIAL TO BE M.S. EXCEPT WHERE NOTED OTHERWISE ALL STEEL TO BE IN ACCORD WITH A.B.S. SPEC.
4. BHD SCANTLINGS & PLATING SHOWN ON THIS DRAWING HAVE BEEN SIZED USING ALLOWABLE REDUCTIONS FOR SPECIAL COATINGS. WHERE THIS REDUCTION APPLIES, PARENTHESIZED SCANTLINGS & PLATES MEET NORMAL ABS REQUIREMENTS.
5. SCANTLINGS & PLATING HAVE BEEN SIZED IN ACCORDANCE WITH DESIGN CRITERIA BASED ON A HEAD OF 57'-0" ABL FOR THE BHD INBD OF THE 19'-4" BHDS BELOW THE STABILIZER DUCT TOP, TO A HEAD TO THE FREEBOARD DECK FOR THE BHD INBD OF THE 19'-4" BHD ABOVE THE STABILIZER DUCT TOP, & TO A HEAD OF 4.25' ABOVE THE MAIN DECK FOR THE BALLAST TANKS.

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
A 5-10-73
A 11-9-73

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
3	TRANSV BHD 94	30331-11×14	241-S11-18-16
2	STANDARD WELDING DETAILS	30313-01X2	241-S29-06-01
1	STANDARD STRUCTURAL DETAILS	30313-01X1	241-S11-17-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
A	7	3	18, 19, & 20

Q div DWG NO. 30331-11X10

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN GO
DSGNR HF
SUPV
ENGR RB/MK

TRANSV BHD 67
(SCANTLINGS)

APPROVED DATE 1/21/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S11-18-12	A

SCALE
SHEET OF

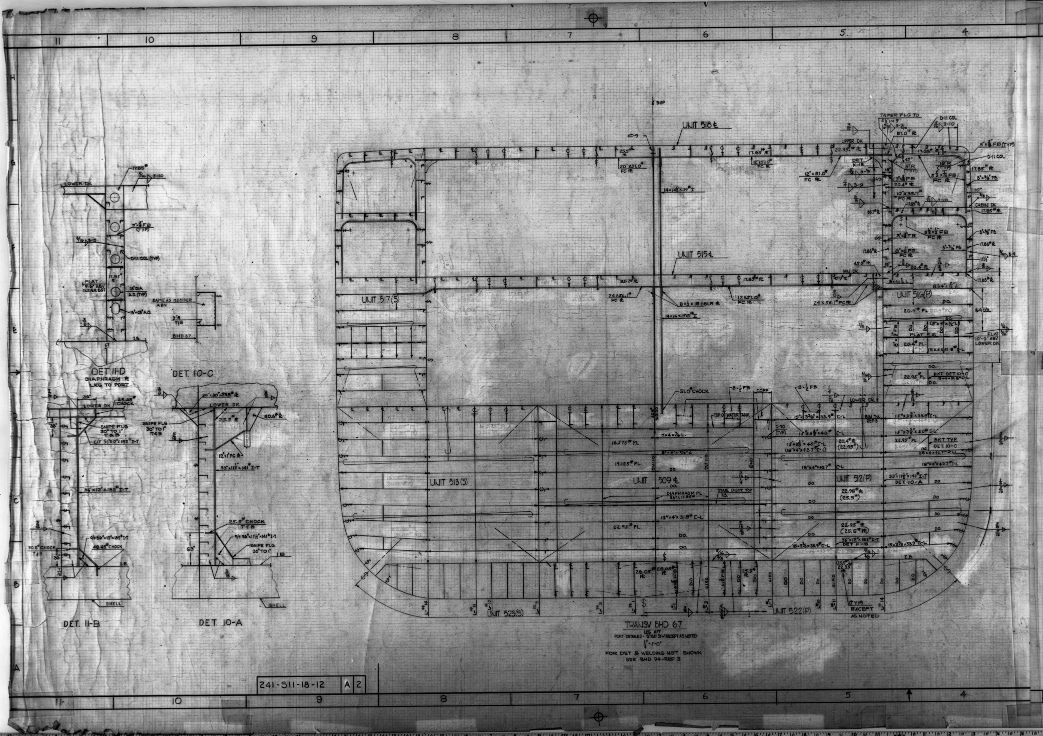
APPROVAL LTR DATED
ABS 4-10-70
USCG 2-19-70
USPHS Not Reqd

3 2 1 AREA = 14 SQ FT

M.A. DWG NO. S11-18-12

Q div DWG NO. 30331-11X10

GENERAL DYNAMICS, QUINCY
MA NO. 241-511-18-12 GD NO. 30331-11x10
NOV, 1973 8X
FRAME 1 ② 3 4


UNIT 518 ℄
UNIT 515 ℄
UNIT 517 (S)
UNIT 516 (P)
UNIT 513 (S)
UNIT 509 ℄
UNIT 512 (P)
UNIT 523 (S)
UNIT 522 (P)
℄ SHIP
UPPER DK
CABIN DK
MN DK
LOWER DK
TOP OF WATER TANK
COFF
DIAPHRAGM PL 36"x17.85# ℄
STAB. DUCT TOP
D-11 COL
6-9 COL
FLAT 10'-9" ABV LOWER DK
DET 11-D
DIAPHRAGM ℄ LKG TO PORT
DET. 10-C
DET. 11-B
DET. 10-A
SHELL
I.B.
SNIPE FLG 30° TO 1"
(TYP) EXCEPT AS NOTED

TRANSV BHD 67
LKG AFT
PORT DETAILED - STBD SIM EXCEPT AS NOTED
$\frac{1}{4}$" = 1'-0"

FOR DET & WELDING NOT SHOWN
SEE BHD 94-REF 3

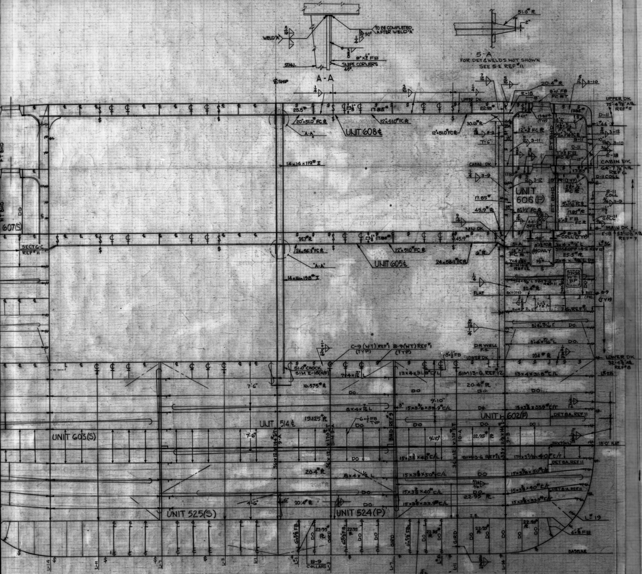
241-511-18-12 A 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S11-18-13 GD NO. 30331-11x11 FRAME ① 2 3 4

M.A. DWG NO. 241-S11-18-13

DWG. NO. 30331-11x11

Q div DWG NO. 30331-11x11



A-A
5-A
FOR DET & WELDS NOT SHOWN SEE 5-E REF #11
TO BE COMPLETED AFTER WELD "A"
WELD "A"
SNIPE CORNERS
℄ SHIP
UPPER DK
CABIN DK
MAIN DK
LOWER DK
FLAT
DR WELL
UNIT 608℄
UNIT 606(P)
UNIT 607(S)
UNIT 605℄
UNIT 602(P)
UNIT 514℄
UNIT 603(S)
UNIT 525(S)
UNIT 524(P)
14x14x119# I
14x16x158# I
SECT C-C REF #11
C-9 (WT) REF #1 (TYP)
B-9 (WT) REF #1 (TYP)
DET 8A, REF 11
BASELINE
B-9 COLLARS

TRANSV BHD 70

LKG AFT

PORT DETAILED - STBD SIM EXCEPT AS NOTED

$\frac{1}{4}$" = 1'-0"

FOR DET & WELDING NOT SHOWN SEE BHD 94 REF 11

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	1. DRWG APPROVED BY J.J. HENRY LTR OF FEB 6, 70 FILE: 5589/S11/AHS-51-70	2/12/70		—	—	LTR 2/6/70	2/17/70

REVISIONS	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		2/17/70						800		
LYKES								820		
M.A.(WASH)								826		
M.A.(YARD)		1						829		
J.J.HENRY(YARD)		1						830		
J.J.HENRY(HOME)								841		
ABS		1						842		
USCG		1						843		
USPHS								844		
Reed 899		1						899		
								LIBRARY		
871		5								
872		6								
873										
874		1								
875		1								
876		2								
TPS 866		1								
865		1								
TOTAL NRO'S FS		32								
TOTAL NRO'S HS										
TOTAL RO								TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G
—	—						

GENERAL NOTES

1. FOR STRUCT DET & ADDL NOTES SEE REF #1
2. FOR WELDING DET & ADDL NOTES SEE REF #2
3. ALL MATL TO BE MS EXCEPT WHERE NOTED OTHERWISE. ALL STEEL TO BE IN ACCORDANCE WITH A.B.S. SPECS.
4. SCANTLINGS & PLATING OUT'BD OF 19'4" BHD & BELOW LWR. DK HAVE BEEN SIZED IN ACCORDANCE WITH DESIGN CRITERIA BASED ON A HEAD 3' ABV. THE MAIN DK. REMAINING SCANTLINGS & PLATING HAVE BEEN DESIGNED AS A WATERTIGHT BHD. WITH A DESIGN HEAD TO THE FREEBOARD DK (MAIN DK.)
5. BUTT & SEAM WELDS ARE TO BE IN ACCORDANCE WITH APP'D FULL PENETRATION BUTT WELDS AS SHOWN ON REF #2, EXCEPT AS NOTED. MANUFACTURING MAY EXERCISE THE OPTION TO EDGE PREP EITHER SIDE OF PLATES OR SHAPES.

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED 5-10-73

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
12	SCANTLING-TRANSV BHD 88	30331-11x13	4-S11-18-15
11	SCANTLING-TRANSV BHD 94	30331-11x14	-S11-18-16
10	SCANTLING-LONG. BHD AFT-37'-11" OFF ℄	30332-01x03	-S11-18-20
9	SCANTLING-LONG. BHD 19'-4¼" OFF ℄	30332-01x01	-S11-18-18
8	SCANTLING-LOWER DK AFT	30343-02x02	-S11-18-22
7	SCANTLING-MAIN DK AFT	30343-03x02	-S11-18-24
6	SCANTLING-CABIN DK	30343-04x01	-S11-18-25
5	SCANTLING-UPPER DK AFT	30343-05x02	-S11-18-27
4	SHELL EXP AFT 64 ABV LOWER DK	30351-25x04	-S11-01-04
3	SHELL EXP AFT 64 BEL LOWER DK	30351-25x02	-S11-01-02
2	STD WELDING DETAILS	30313-01x02	-S29-06-01
1	STD STRUCT DETAILS	30313-01x01	241-S11-17-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
0	7	3	18,19,20

Q div DWG NO.
30331-11x11

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN E
DSGNR JF
SUPV
ENGR RB / M.K.

SCANTLING -
TRANSV BHD 70

APPROVED DATE 1/17/70
FOR GENERAL DYNAMICS QUINCY DIVISION

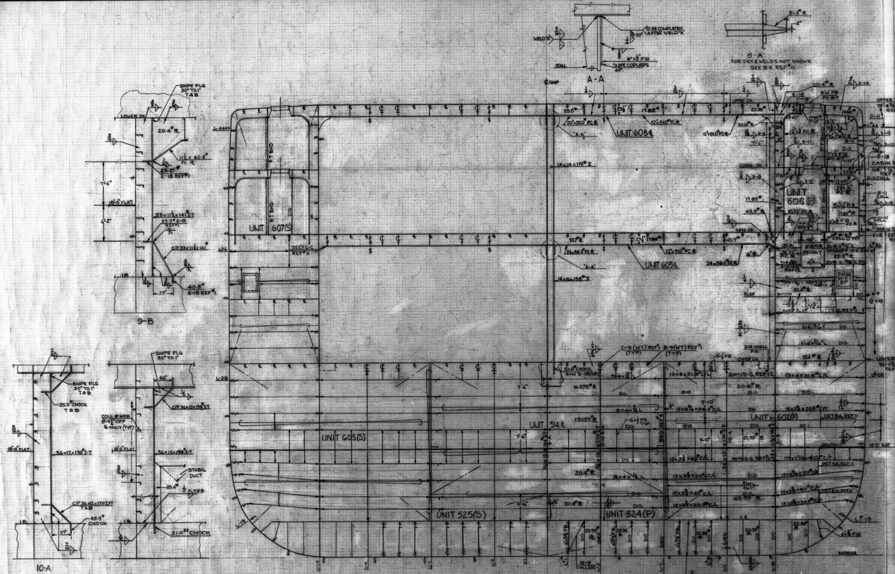
APPROVAL LTR DATED
ABS 4-9-70
USCG 1-30-70
USPHS Not Reqd

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S11-18-13	A

SCALE ¼" = 1'-0"
SHEET 1 OF 1

AREA = SQ FT /3

GENERAL DYNAMICS, QUINCY
MA NO. 241-511-18-13
GD NO. 30331-11x11
NOV, 1973
8X
FRAME 1 ② 3 4



A-A
5-A
FOR DET & WELDS NOT SHOWN SEE 5-E REF 11
TO BE COMPLETED AFTER WELD "A"
SNIPE CORNERS
UPPER DK
CABIN DK
MAIN DK
LOWER DK
UNIT 608 ℄
UNIT 607(S)
UNIT 606(P)
UNIT 605 ℄
UNIT 603(S)
UNIT 514 ℄
UNIT 602(P)
UNIT 525(S)
UNIT 524(P)
14×14×119# I
14×16×138# I
W T BHD
F T BHD
DR WELL
BASELINE
SNIPE FLG 30° TO 1" T&B
LOWER DK
E-18 REF 11
18'-0" FLAT
9-B
9-A
10-A
STABIL DUCT
51.0# CHOCK
45.9# CHOCK
25.5# CHOCK T&B
COLL @ WEB

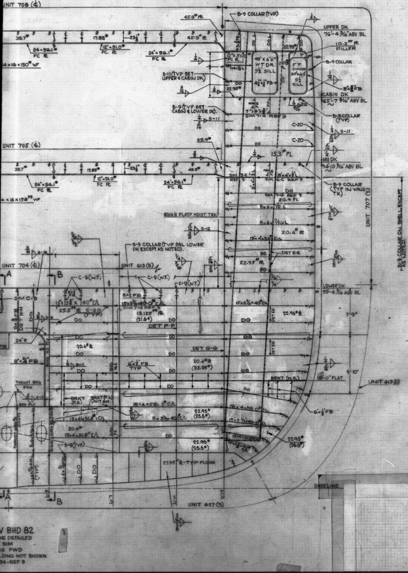
TRANSV BHD 70
LKG AFT
PORT DETAILED - STBD SIM EXCEPT AS NOTED
1/4" = 1'-0"

FOR DET & WELDING NOT SHOWN
SEE BHD 94 REF 11

241-511-18-13 | A | 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-14 GD NO.30331-11x12 FRAME ① 2 3 4

ZONE	LTR	REVISIONS	Q DIV DATE	Q DIV APPD	M A DATE	M A APPD	OWNER DATE	OWNER APPD
	A	1. PLAN APPROVED IN ACCORD WITH J.J HENRY CO. LTR FILE 5589/511/ABS-48-70 DATED FEB 5, 1970.	2/18/70		–	–	LTR 2-5	70



UNIT 708 (℄)
B-9 COLLAR (TYP)
UPPER DK 76'-4 7/16" ABV BL
10.2# ℘ FILLER
45.9# ℘
35.7#
17.85#
24×56.1# FC ℘
12"×51.0# FC ℘
14×16×150# WF
48"X6'6" WTDR 9½ SILL
FT DOOR 30"×6'5" 9½ SILL
B-9 COLLAR
B-11 (TYP BET UPPER & CABIN DK)
CABIN DK 65'-7 3/16" ABV BL
B-9 (TYP BET CABIN & LOWER DK)
SIM 7-G REF 9
B-9 COLLAR (TYP)
C-20
UNIT 705 (℄)
15.3# PL
MN DK 51'-10 9/16" ABV BL
B-9 COLLAR (TYP IN WING TK)
SIM 6-C REF 9
20.4# PL
ENG'S PLATF HOIST TRK
UNIT 707 (S)
B-9 COLLAR ON SHELL EXCEPT AS NOTED
20.4# ℘
B-9 COLLAR (TYP BEL LOWER DK EXCEPT AS NOTED)
UNIT 704 (℄)
UNIT 613 (S)
C-9 (W.T.)
DET E-E
22.95# ℘
LOWER DK 33'-4 3/16" ABV BL
SIM C-9
15×3⅜×40# C/L
25.5# ℘
C-20 (TYP)
19.125# ℘ (21.0#)
DET F-F
15×3⅜×40# C/L
22.95# ℘
7'-9"
24"R
DET G-G
20.4# ℘ (22.95#)
6"×⅜ FB TYP
BRKT (N.S.)
18'-0" FLAT
9'-10"
UNIT 613 (S)
THRUST BRG FDN
BRKT (F.S.)
BRKT (F.S.) UNIT 611
18×4×58.0# C/L
13×4×31.8# C/L
15×3⅜×40# C/L
22.95# (25.5#)
6×½ FB
22.95# ℘ - TYP FLOOR
BASELINE
UNIT 627 (S)
DO

V BHD 82
DE DETAILED
SIM
G FWD
LDING NOT SHOWN
94-REF 9

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. ALL MAT'L TO BE MEDIUM STEEL, EXCEPT WHERE NOTED OTHERWISE. ALL STEEL TO BE IN ACCORDANCE WITH ABS SPECIFICATION.
4. BHD SCANTLINGS & ℘ SHOWN ON THIS DRAWING HAVE BEEN SIZED USING ALLOWABLE REDUCTIONS FOR SPECIAL COATINGS. WHERE THIS REDUCTION APPLIES, PARENTHESIZED SCANTLINGS & ℘ MEET NORMAL ABS REQUIREMENTS.
5. SCANTLINGS & PLATING HAVE BEEN DESIGNED IN ACCORDANCE WITH DESIGN CRITERIA FOR A WATER TIGHT BHD INBOARD OF THE 19'-4¾" LONG'L BHDS & TO A HEAD 4.25' ABOVE THE MAIN DK FOR THE WING BALLAST TANKS.

RESERVATIONS

~~1. LOC OF ENGINEERS HOIST TRK & OPENING ABV CABIN DK PENDING MECH DEV~~

PRINT DISTRIBUTION

REVISION	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		2/18/70						800		
LYKES								820		
MA (WASH)								826		
MA (YARD)		1						829		
JJ HENRY (HOME)								830		
JJ HENRY (YARD)		1						841		
ABS		1						842		
USCG		1						843		
USPHS								844		
Reed 899		1						899		
								LIB		
871		5								
872		6								
873										
874		1								
875										
876		2								
TRS 866		1								
865		1								
TOTAL NRO'S FS		21								
TOTAL NRO'S HS										
TOTAL Z								TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

MA HULL NO	Q DIV HULL NO	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALLMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

MICROFILMED
A 5-11-73
A 11-12-73

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC
DESIGN B5-L-M3

NO	TITLE	Q DIV DWG NO	M A DWG NO
9	TRANSV BHD 94	30331-11X14	511-18-16
8	FDN-MN PROPULSION PLANT	3061140-146	—
7	SHELL	30351-25x02	511-01-02
6	CABIN DK (SCANTLG)	30343-04x01	511-18-25
5	LOWER DK PLTG AFT (SCANTLG)	30343-02x02	511-18-22
4	MAIN DK PLTG AFT (SCANTLG)	30343-03x02	511-18-24
3	UPPER DK PLTG AFT (SCANTLG)	30343-05x02	511-18-27
2	STD WELDING DETS	30313-01x02	529-06-01
1	STD STRUCTURAL DETS	30313-01x01	511-17-01

REFERENCES

Q DIV DWG NO 30331-11×12

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY, MASS 02169

DFTMN EHM
DSGNR HF
SUPV
ENGR MK

TRANSV BHD 82
(SCANTLINGS)

APPROVED DATE R. Jackson 1/15/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO	MARITIME ADMINISTRATION NO	REV
25316	241-511-18-14	A

SCALE: ¼" = 1'-0" SHEET 1 OF 1

APPROVAL LTR DATED
ABS 2-25-70
USCG 1-30-70
USPHS Not Reqd

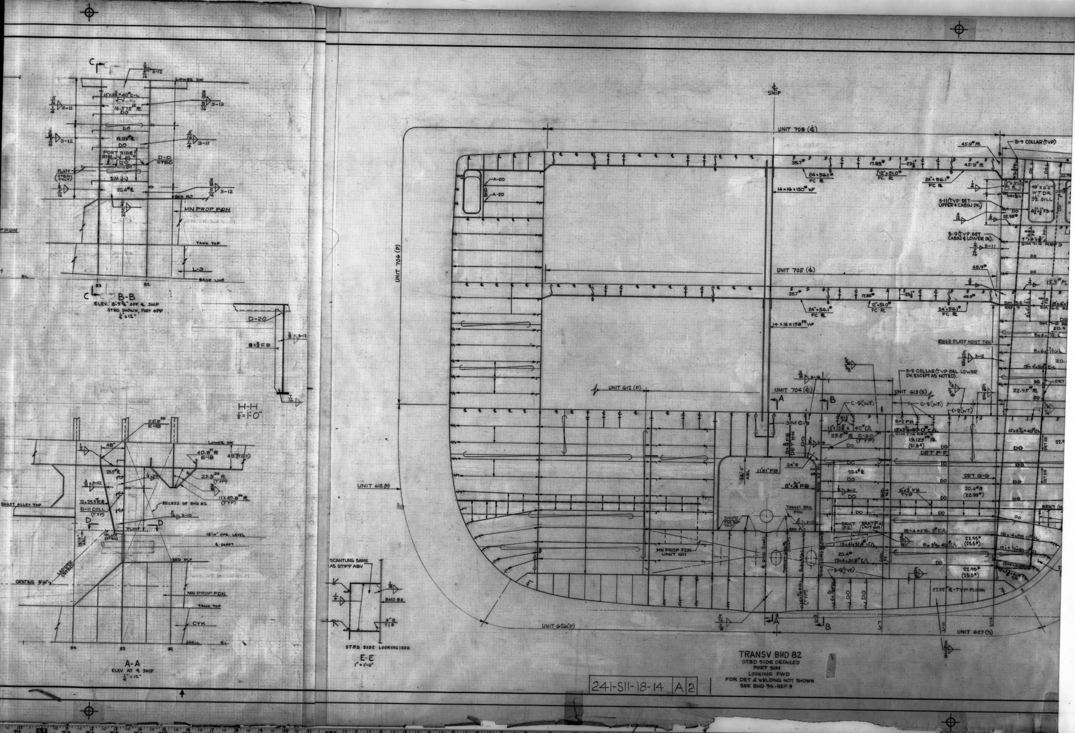
REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC
A	7	3	18, 19, 20

AREA ______ SQ FT

30331-11×12

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-511-18-14 GD NO. 30331-11x12 FRAME 1 ② 3 4


LOWER DK
15x3⅜x40# C-L
16.575# PL DO
19.125# PL DO
PORT SIDE SIM
D-D STBD
PLATF (STBD ONLY)
SIM 3-3
20.4# PL
BED PLT
MN PROP FDN
TANK TOP
BASE LINE
L-3
B.L.
83
82
D-20
8x½ FB
25.5# E-18
48"
40.8# PL E-18
48"(REF)
25.5# PL
25.5# PL (TYP)
11x40.8# PL (TYP)
12x25.5# C-L
D-11 COLL (TYP)
RECESS OF BHD 82
SHAFT ALLEY TOP
PLATF (STBD)
18'-0" OPR. LEVEL
℄ SHAFT
LADDER (STBD)
GRATING
CVK
SHELL
84
SCANTLING SAME AS STIFF ABV
BHD 82
3"R T/B
STBD. SIDE LOOKING INBD.
℄ SHIP
UNIT 708 (℄)
UNIT 706 (P)
UNIT 705 (℄)
UNIT 704 (℄)
UNIT 612 (P)
UNIT 613 (S)
UNIT 626 (P)
UNIT 627 (S)
A-20
BHD
35.7#
24x56.1# FC PL
17.85#
12"x51.0# FC PL
45.9# PL
14x16x150# WF
14x16x158# WF
B-9 COLLAR (TYP)
48"x6'6" W.T DR 9½ SILL
B-11 (TYP BET UPPER & CABIN DK)
B-9 (TYP BET CABIN & LOWER DK)
22.95#
SIM 7-G REF 9
15.3# PL
ENG'S PLATF HOIST TRK
B-9 COLLAR (TYP BEL LOWER DK EXCEPT AS NOTED)
C-9 (W.T.)
SIM C-9
15x3⅜x40# C/L
25.5# PL C-20 (TYP)
19.125 (21.6#)
DET P-P
DET G-G
DET H-H
24"R
11x1" FB
8"x¾" FB
20.4#
20.4# (22.95#)
6"x¾" FB TYP
DO
BRKT (F.S.)
BRKT (F.S.) UNIT 611
THRUST BRG FDN
SNIPE
MN PROP FDN UNIT 611
B-9 (TYP)
18x4x58.0# C/L
15x3⅜x40# C/L
13x4x31.8# C/L
22.95# (25.5#)
22.95# PL TYP FLOOR
A
B

B-B
ELEV. 8'-9¾" OFF ℄ SHIP
STBD SHOWN, PORT OPP
¼" = 1'2"

H-H
½" = 1'-0"

A-A
ELEV AT ℄ SHIP
¼" = 1'2"

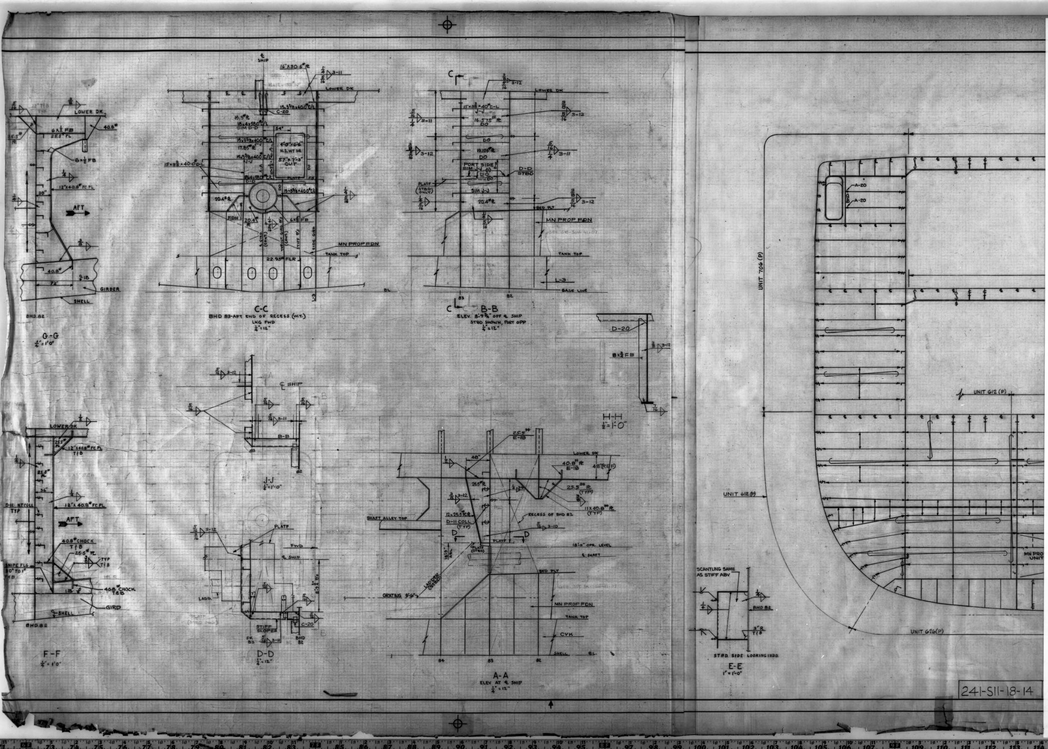
E-E
1" = 1'-0"

TRANSV BHD 82
STBD SIDE DETAILED
PORT SIM
LOOKING FWD
FOR DET & WELDING NOT SHOWN
SEE BHD 94-REF 9

241-511-18-14 A 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

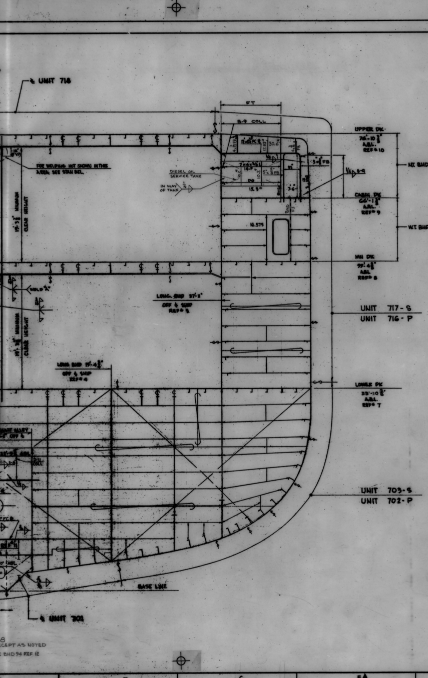
MA NO. 241-511-18-14 GD NO. 30331-11x12 FRAME 1 2 ③ 4



LOWER DK
6x½ FB
25.5# FL
6x½ FB
12"x40.8# FC PL
AFT
40.8#
72"
GIRDER
SHELL
BHD 82
G-G
¼" = 1'0"
℄ SHIP
16"x30.6# PL
C-20
15.3# PL
18x4x58.0 C/L
SIM D-D
4'-0"x6'-6" W.S. WT DR.
57"x7'-3" CUT
20.4# PL
FDN
22.95# FLR
MN PROP FDN
TANK TOP
B.L.
C-C
BHD 83-AFT END OF RECESS (W.T.)
LKG FWD
¼" = 12"
16.575# PL DO
19.125# PL DO
PORT SIDE
D-D STBD
PLATF (STBD ONLY)
SIM J-J
20.4# PL
BED PLT
MN PROP FDN
TANK TOP
L-3
BASE LINE
B-B
ELEV. 8'-9¾" OFF ℄ SHIP
STBD SHOWN, PORT OPP.
¼" = 12"
D-20
8x½ FB
H-H
½" = 1'-0"
LOWER DK
12"x40.8# FC PL
T & B
25.5# PL
D-11 NT COLL TYP
AFT
40.8# CHOCK T & B
SNIPE FLG 30" TO 1" T & B
40.8# CHOCK T & B
GIRD
SHELL
BHD 82
F-F
¼" = 1'0"
℄ SHIP
B-B
J-J
¼" = 1'-0"
PLATF
FWD
℄ SHIP
LADR.
STIFF SLOPES
C-20
FR 83
BHD 82
D-D
¼" = 12"
25.5# E-18
LOWER DK
40.8# PL E-18
48" (REF)
25.5# PL (TYP)
11x40.8# PL (TYP)
SHAFT ALLEY TOP
12x25.5 FC PL
D-11 COLL (TYP)
RECESS OF BHD 82
PLATF
18'-0" OPR. LEVEL
℄ SHAFT
GRATING
LADDER (STBD)
BED PLT
MN PROP FDN
TANK TOP
CVK
SHELL
84
83
82
A-A
ELEV AT ℄ SHIP
¼" = 12"
SCANTLING SAME AS STIFF ABV
BHD 82
3" R T & B
STBD SIDE LOOKING INBD.
E-E
1" = 1'-0"
UNIT 706 (P)
A-20
UNIT 612 (P)
UNIT 612 (P)
UNIT 626 (P)
MN PRO UNIT
241-511-18-14

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S11-18-15 GD NO. 30331-11x13 FRAME ① 2 3 4

30331-11x13



ZONE	LTR	REVISIONS	Q DIV DATE	Q DIV APPD	M A DATE	M A APPD	OWNER DATE	OWNER APPD
		8. HORIZ. STIFF. ADJACENT TO SHELL STGR #30 & 31 ABV LOWER DK CHGD FROM 13x4x31.8#[-L TO 15x3 3/8x33.9#[-L. 9. ADDED PERIPHERY OF DIESEL OIL TANK ABV CABIN DK (P) & REV WELDING TO SUIT. 10. IND BHD FS BET. MAIN & CABIN DK (P). 11. REV WELD AT OUTBD END CONN. OF UPPER & MAIN DK TRANSV GIRDERS. 12. IND OF UPPER DK ⊈ LONG. CHGD FROM FB TO TEE. 13. DELETED PANEL STIFF. IN WAY OF LONG. #2 & 12 P/S AT UPPER & MAIN DK TRANSV GIRDERS. ITEMS 1, 2, 3, 4 & 8 TO SUIT ABS COMMENTS						

ZONE	LTR	REVISIONS		Q DIV DATE	Q DIV APPD	M A DATE	M A APPD	OWNER DATE	OWNER APPD
	A	PLAN APPVD IN ACCORD WITH J.S.HENRY LTR 5589/511/AHS-21-70 DATED JAN 20, 1970.		1/29/70		—	—	LTR 1/20	DTD /70
	B	1. CLARIFIED BHD PLTG & FRMG SCANTLINGS & USAGE OF PARENTHESES TO AGREE WITH GEN NOTE #4. 2. 14-C: ADDED CHOCKS, DET 10-A, IN WAY OF VERT. STIFF 8'-9 3/4" OFF ⊈ & MODIFIED WELDING. 3. 12-E, 13-E, 13-G & 14-C: MODIFIED STIFF. WELDS TO AGREE WITH REF #2. 4. 14-A: MODIFIED BRKT WELDS & ENDING OF SHAFT ALLEY LONG. 5. THICKNESS OF BHD STRAKE BELOW UPPER DK P/S INCR FROM 20.4# TO 30.6# & PERIPERY WELD REV. FRMG IN WAY OF SAME MODIFIED STBD ONLY. 6. ADDED 17.85# BRKT BELOW CABIN DK LONG. 7. REV ENDING OF 51.0# CHOCK & ADJACENT HORIZ. STIFF. BELOW CABIN DK. (CONT.)	JJG	7/1/70				10 JULY 1970	

PRINT DISTRIBUTION

REVISION	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO	12/10/9	1/27/0	7/3/0					800		
LYKES								820		
MA (WASH)								826		
MA (YARD)	1	1						829		
JJ HENRY (HOME)								830		
JJ HENRY (YARD)	1	1						841		
ABS	1	1						842		
USCG	1	1						843		
USPHS								844		
Rec'd 899	1	1	1					899		
								LIB		
871	6	6	6							
872	6	6	6							
873										
874	1	1	1							
875		1	1							
876	2	2	2							
TP3 866	1	1	1							
865	1	1	1							
895	1									
TOTAL NRO'S FS	19	23	19							
TOTAL NRO'S HS										
TOTAL - Z								TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. ALL MATERIAL TO BE M.S. EXCEPT WHERE NOTED OTHERWISE ALL STEEL TO BE IN ACCORD WITH A.B.S. SPEC.
4. THE BHD SCANTLINGS THICKNESSES SHOWN ON THIS DRWG TAKE INTO ACCOUNT THE ALLOWABLE REDUCTION FOR SPECIAL COATINGS AND ARE IN ACCORDANCE WITH THE REDUCTIONS SHOWN ON DWG. #5382-511-4 ALT "F" (BHD SCANTLINGS) AS APPROVED BY A.B.S. WHERE THIS REDUCTION APPLIES, PARENTHESIZED SCANTLINGS & PLATES MEET NORMAL ABS REQUIREMENTS.
5. DESIGN HEAD FOR SCANTLINGS OUTBD OF 19'-4 3/4" BHD IS 4.25' ABV CABIN DK. DESIGN CRITERIA FOR CENTER TANK IS BASED ON OVERFLOW HEIGHT OF 3' ABV. MN DK.

M A HULL NO	Q DIV HULL NO	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC
DESIGN B5-L-M5

NO	TITLE	Q DIV DWG NO	M A DWG NO
12	TRANSV BHD 94	331-11x14	241-S11-18-16
11	TANK TOP PLTG & FRMG SCANTLINGS	343-01x1	241-S11-06-01
10	UPPER DK SCANTLINGS AFT	343-05x2	241-S11-18-27
9	CABIN DK SCANTLINGS	343-04x1	241-S11-18-25
8	MAIN DK SCANTLINGS AFT	343-03x2	241-S11-18-24
7	LOWER DK SCANTLINGS AFT	343-02x2	241-S11-18-22
6	SHELL EXPANSION AFT 64 ABV LOWER DK	351-25x4	241-S11-01-04
5	SHELL BEL LOWER DK	351-25x2	241-S11-01-02
4	SCANTLINGS-LONG BHD 19'-4 3/4" OFF ⊈	332-05x2	241-S11-18-18
3	SCANTLINGS-LONG BHD 37'-11" OFF ⊈ AFT	322-05x5	241-S11-18-20
2	STD WELDING DETS	30313-01x02	241-S29-06-01
1	STD STRUCTURAL DETS	30313-01x01	241-S11-17-01

REFERENCES

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC
0	7	3	18, 19, 20

Q DIV. DWG NO 30331-11x13

DFTMN WFL
DSGNR JW
SUPV ZBM
ENGR AB/MK

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY MASS 02169

TRANSV BHD 88

APPROVED DATE
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS 2-9-70
USCG EXAMINED
USPHS Not Reqd

CODE IDENT NO	MARITIME ADMINISTRATION NO	REV
25316	241-S11-18-15	B

SCALE: 1/4" = 1'-0" SHEET

AREA -------SQ FT 19

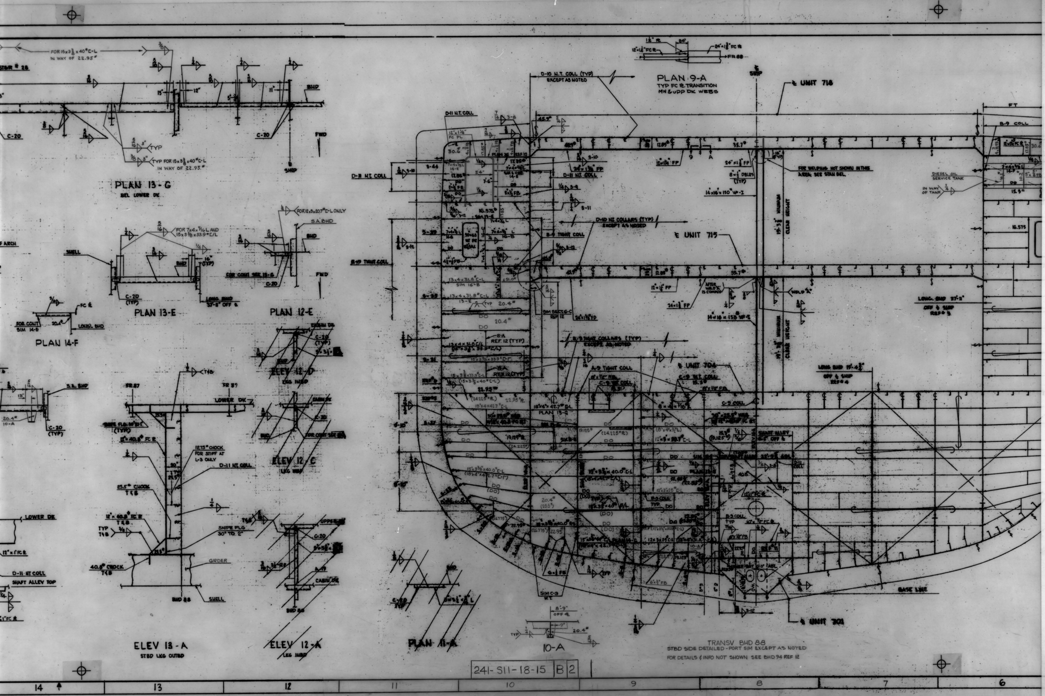
Q DIV DWG NO 30331-11x13

MA DWG NO. 241-S11-18-15

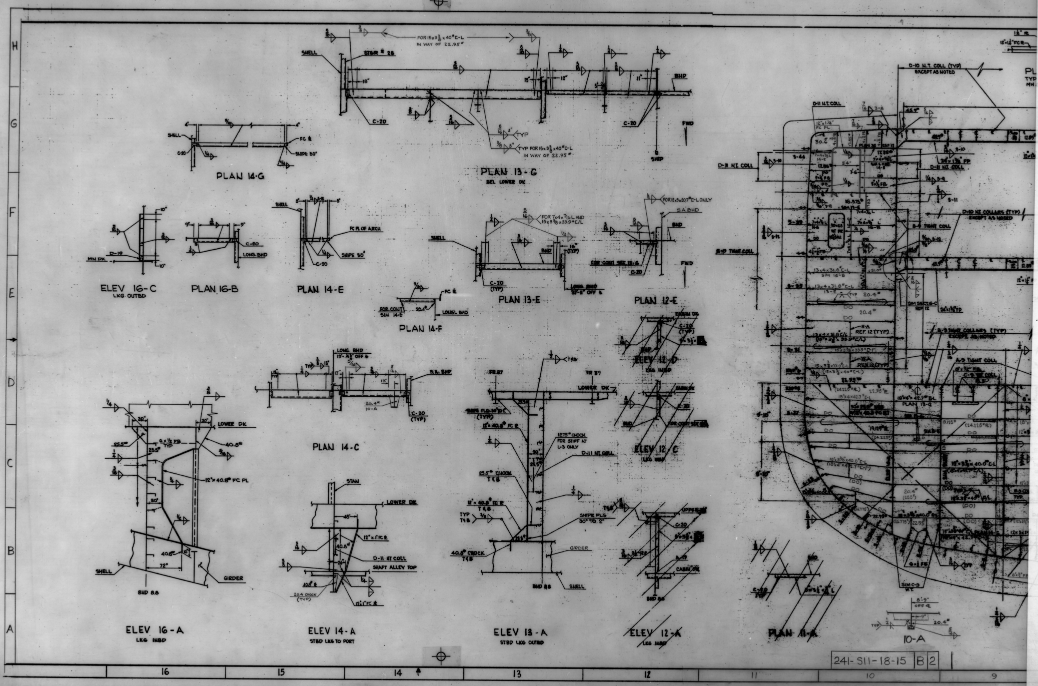
8 7 6 5 3 2

H G F E D C B A

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S11-18-15 GD NO. 30331-11x13 FRAME 1 ② 3 4

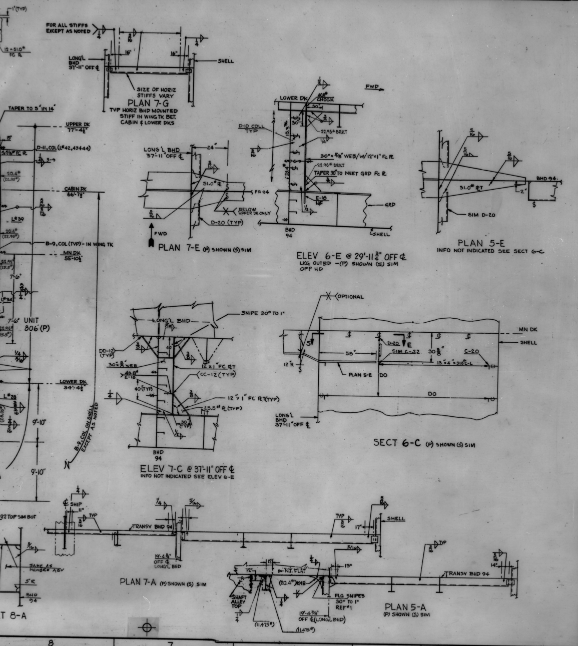

FOR 15x3⅜x40# C-L IN WAY OF 22.95#
PLAN 13-G
BEL LOWER DK
PLAN 13-E
PLAN 12-E
PLAN 14-F
ELEV 12-D
ELEV 12-C
ELEV 13-A
STBD LKG OUTBD
ELEV 12-A
LKG INBD
PLAN 11-A
10-A
PLAN 9-A
TYP FC PL TRANSITION MN & UPP DK WEBS
D-10 N.T. COLL (TYP) EXCEPT AS NOTED
℄ UNIT 718
℄ UNIT 715
℄ UNIT 704
℄ UNIT 701
℄ SHIP
FWD
SHIP
LOWER DK
SHELL
GIRDER
BHD 88
SHAFT ALLEY TOP
D-11 NT COLL
DIESEL OIL SERVICE TANK
FOR WELDING NOT SHOWN IN THIS AREA SEE STAN DEL
BASE LINE
SIM C-3 W.T.
8'-9" OFF ℄
TRANSV BHD 88
STBD SIDE DETAILED - PORT SIM EXCEPT AS NOTED
FOR DETAILS & INFO NOT SHOWN SEE BHD 94 REF 12
14
13
12
11
10
9
8
7
6

241-S11-18-15 B 2


PLAN 14-G
PLAN 13-G
BEL LOWER DK
FOR 15x3⅜x40#C-L IN WAY OF 22.95#
TYP FOR 15x3⅜x40#C-L IN WAY OF 22.95#
SHELL
STGR # 28
C-20
BHD
FWD
SHIP
ELEV 16-C
LKG OUTBD
MN DK
D-19
PLAN 16-B
C-20
LONG. BHD
PLAN 14-E
FC PL OF ARCH
SNIPE 30°
PLAN 14-F
FOR CONT SIM 14-E
LONGL BHD
PLAN 13-E
FOR 7x4x7/16 L AND 15x3⅜x33.9#C/L
LONG. BHD 37'-8" OFF ℄
PLAN 12-E
FOR 12x3x207#C-L ONLY
S.A. BHD
FOR CONT SEE 13-G
PLAN 14-C
LONG BHD
S.A. BHD
20.4#
10-A
ELEV 12-D
ELEV 12-C
ELEV 16-A
LKG INBD
LOWER DK
6x½ FB TYP
12"x40.8# FC PL
SHELL
GIRDER
BHD 88
ELEV 14-A
STBD LKG TO PORT
STAN
LOWER DK
12"x1" FC ℄
D-11 NT COLL
SHAFT ALLEY TOP
20.4 CHOCK (TYP)
ELEV 13-A
STBD LKG OUTBD
FR 87
LOWER DK
12.75# CHOCK FOR STIFF AT L-3 ONLY
D-11 NT COLL
25.5# CHOCK T&B
SNIPE FLG 30° TO 2"
40.8# CHOCK T&B
GIRDER
BHD 88
SHELL
ELEV 12-A
LKG INBD
UPPER DK
C-20
CABLE FDN
PLAN 11-A
10-A
8'-9" OFF ℄
20.4#
D-10 N.T. COLL (TYP) EXCEPT AS NOTED
D-11 N.T. COLL
D-11 NT COLL
D-10 NT COLLARS (TYP) EXCEPT AS NOTED
S-3 TIGHT COLLARS (TYP) EXCEPT AS NOTED
A-3 TIGHT COLL
PLAN 13-G
SIM C-3
W.T.
PLAN 9
241-S11-18-15 B 2
16
15
14
13
12
11
10
9
H
G
F
E
D
C
B
A

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-S11-18-15 GD NO. 30331-11x13 FRAME 1 2 ③ 4


FOR ALL STIFFS EXCEPT AS NOTED
12 - 51.0# FC PL
LONG'L BHD 37'-11" OFF ℄
16"
16"
SHELL
SIZE OF HORIZ STIFFS VARY
PLAN 7-G
TYP HORIZ BHD MOUNTED STIFF IN WING TK BET. CABIN & LOWER DKS
TAPER TO 5" IN 14"
UPPER DK 77'-4½"
D-11, COL (L#42, 43 & 44)
20.4# (22.95#)
CABIN DK 66'-7½"
L#39
B-9, COL (TYP) - IN WING TK
MN DK 55'-10½"
7'-6"
L#34
7'-6" UNIT 806 (P)
LOWER DK 34'-4½"
L#28
9'-10"
9'-10"
B-9, COL ON SHELL EXCEPT AS NOTED
LONG'L BHD 37'-11" OFF ℄
24"
51.0# PL
FR 94
BELOW UPPER DK ONLY
D-20 (TYP)
FWD
PLAN 7-E (P) SHOWN (S) SIM
LOWER DK
40.8# CHOCK
30"
D-10 COLL TYP
22.95# BRKT
30" × 5/8" WEB/W/12" × 1" Fc PL
TAPER 30° TO MEET GRD Fc PL
E-18 WF
GRD
BHD 94
SHELL
FWD
ELEV 6-E @ 29'-11¾" OFF ℄
LKG OUTBD -(P) SHOWN (S) SIM OPP HD
51.0# PLT
BHD 94
2"
SIM D-20
PLAN 5-E
INFO NOT INDICATED SEE SECT 6-C
LONG'L BHD
SNIPE 30° TO 1"
DD-12 (TYP)
30" × 5/8" WEB
40.8# E-18
40 (TYP)
12 × 1" FC PLT
CC-12 (TYP)
12" × 1" FC PLT (TYP)
25.5# PL (TYP)
30" (TYP)
BHD 94
ELEV 7-C @ 37'-11" OFF ℄
INFO NOT INDICATED SEE ELEV 6-E
OPTIONAL
MN DK
SHELL
D-20
SIM C-22
58"
30⅝"
C-20
13" × 4" × 31.8# L
12" R
PLAN 5-E
DO
DO
LONG'L BHD 37'-11" OFF ℄
SECT 6-C (P) SHOWN (S) SIM
℄ SHIP
11"
TYP
TRANSV BHD 94
19'-4¾" OFF ℄ LONG'L BHD
22 TOP SIM BOT
SAME AS MEMBER ABV
3" R
BHD 94
T 8-A
PLAN 7-A (P) SHOWN (S) SIM
SHELL
17"
12"
N.T. FLAT
13"
(20.4#) K-18
SHAFT ALLEY TOP
FLG SNIPES 30° TO 1" REF#1
19'-4¾" OFF ℄ (LONG'L BHD)
(11.475#)
(11.475#)
TRANSV BHD 94
14"
PLAN 5-A
(P) SHOWN (S) SIM
8
7
6
5
4

REVISIONS ZONE	LTR		Q DIV DATE	Q DIV APPD	M A DATE	M A APPD	OWNER DATE	OWNER APPD
	A	1. PLAN APPROVED BY J.J. HENRY CO. PER LTR FILE: 5589/ S11/AHS-390-69 DATED NOV. 17, 1969.	12/4/69		—	—	LTR 11/17/69	

ABS LTR 12-11-69 & CONF REPORT FILE 320A/211/MK/CHR/RAS-54892 DATED 1/15/70

PRINT DISTRIBUTION

REVISION TO	0	A
		12/11/69
LYKES		
MA (WASH)		1
MA (YARD)		
JJ HENRY (HOME)		
JJ HENRY (YARD)		1
ABS		1
USCG		1
USPHS		
Reed #19		1
871		6
872		6
873		
874		1
875		1
876		2
TPS-866		1
865		1
TOTAL NRO'S FS		23
TOTAL NRO'S HS		
Z		

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
			800		
			820		
			826		
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIB		
			TOTAL		

MATERIAL SECTION SIGNATURE AREA

0	A	B	C	D	E	F	G

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF#1
2. FOR WELDING DETS & ADD'L NOTES SEE REF#2
3. ALL MATERIAL TO BE M.S. EXCEPT WHERE NOTED OTHERWISE ALL STEEL TO BE IN ACCORD WITH ABS. SPEC
4. BHD SCANTLINGS & PLATING SHOWN ON THIS DRAWING HAVE BEEN SIZED USING ALLOWABLE REDUCTIONS FOR SPECIAL COATINGS. WHERE THIS REDUCTION APPLIES; PARENTHESIZED SCANTLINGS & PLATES MEET NORMAL ABS REQUIREMENTS.

MA HULL NO	Q DIV HULL NO	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

MICROFILMED
A 5-11-73

SEA BARGE CLIPPER

REFERENCES

NO	TITLE	Q DIV DWG NO	M A DWG NO
10	SCANTLINGS - LONG BHD 37'-11" OFF ℄ AFT	30332-01X3	S11-18-20
9	SCANTLINGS - LONG BHD 19'-4¾" OFF ℄	30332-01X1	S11-18-18
8	SCANTLINGS LOWER DK AFT	30343-02X2	S11-18-22
7	SCANTLINGS MN DK AFT	30343-03X2	S11-18-24
6	SCANTLINGS CABIN DK	30343-04X1	S11-18-25
5	SCANTLINGS UPPER DK AFT	30343-05X2	S11-18-27
4	SHELL EXP AFT 64 ABV LOWER DK	30351-25X4	S11-01-04
3	SHELL EXP AFT 64 BEL LOWER DK	30351-25X2	S11-01-02
2	STD WELDING DETS	30313-01X02	S29-06-01
1	STD STRUCTURAL DETS	30313-01X01	S11-17-01

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC
A	7	3	18, 20, 21

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC
DESIGN 85-L-M3

Q DIV DWG NO 30331-11X14

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY, MASS 02169

DFTMN RG/RP
DSGNR RG/JW
SUPV
ENGR RB/MK

TRANSV BHD 94

APPROVED DATE
R.Q. Jacobsen/ER
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS 12-11-69
USCG 11-6-69
USPHS No1 Recd

CODE IDENT NO	MARITIME ADMINISTRATION NO	REV
25316	241-S11-18-16	A

SCALE:
SHEET

3
2

AREA ___1_ SQ FT

Q DIV DWG NO 30331-11X14

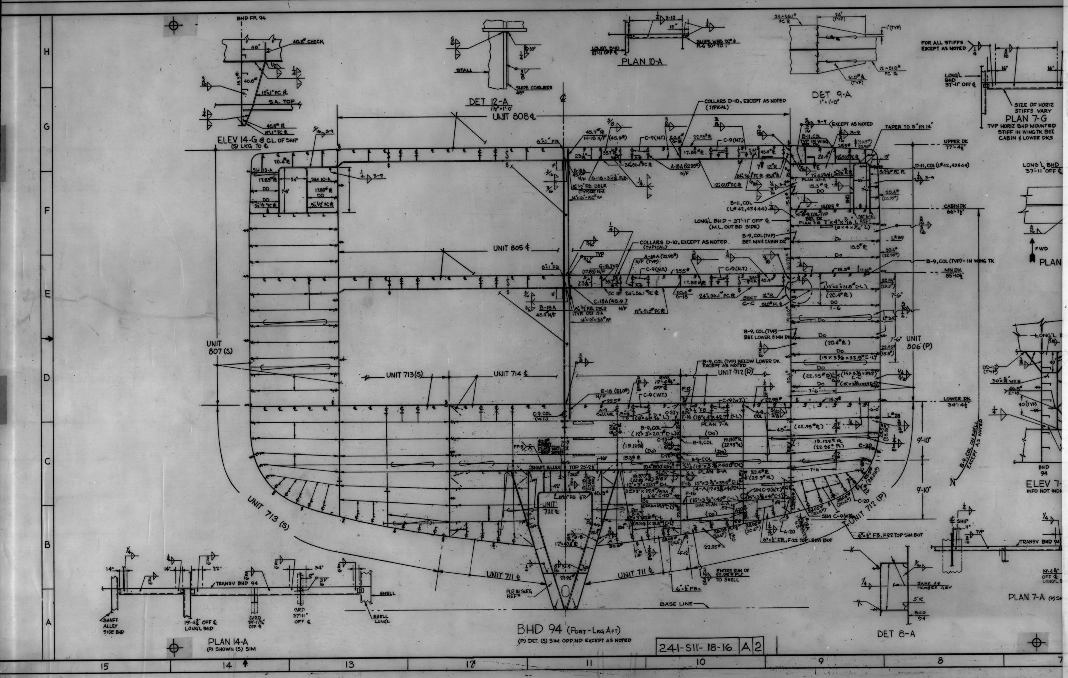
MA DWG NO 241-S11-18-16

30331-11X14

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-511-18-16 GD NO. 30331-11X14 FRAME ① 2 3 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-511-18-16 GD NO. 30331-11x14 FRAME 1 ② 3 4



H
G
F
E
D
C
B
A
BHD FR 94
40.8# CHOCK
48"
S.A. TOP
12"x1" FC PL
40.8# PL
ELEV 14-G @ C.L. OF SHIP
(S) LKG TO ℄
DET 12-A
1½"=1'-0"
STALL
SNIPE CORNERS 45°
PLAN 10-A
LONG'L BHD 37'-11" OFF ℄
SNIPE WEB 30° & FLG 30° TO 1"
DET 9-A
1"=1'-0"
24"(TYP)
1"(TYP)
12 x 51.0# FC PL
51.0# PL (TYP)
FOR ALL STIFFS EXCEPT AS NOTED
SIZE OF HORIZ STIFFS VARY
PLAN 7-G
TYP HORIZ BHD MOUNTED STIFF IN WING TK BET. CABIN & LOWER DKS
UNIT 808 ℄
COLLARS D-10, EXCEPT AS NOTED (TYPICAL)
EXCEPT AS NOTED
TAPER TO 5" IN 14"
UPPER DK 77'-4½"
D-11, COL (L# 42, 43 & 44)
LONG'L BHD 37'-11" OFF ℄
CABIN DK 66'-7½"
B-11, COL (L# 42, 43 & 44)
LONG'L BHD - 37'-11" OFF ℄ (M.L. OUT BD SIDE)
B-9, COL (TYP) BET. MN & CABIN DK
B-9, COL (TYP) - IN WING TK
FWD
UNIT 805 ℄
COLLARS D-10, EXCEPT AS NOTED (TYPICAL)
MN DK 55'-10¼"
SECT C-C
B-9, COL (TYP) BET. LOWER & MN DK
UNIT 806 (P)
UNIT 807 (S)
B-9, COL (TYP) BELOW LOWER DK. EXCEPT AS NOTED
UNIT 713 (S)
UNIT 714 ℄
UNIT 712 (P)
LOWER DK 34'-4½"
PLAN 7-A
PLAN 5-A
SHAFT ALLEY TOP 23'-2½"
UNIT 711 ℄
UNIT 713 (S)
UNIT 712 (P)
B-9, COL ON SHELL EXCEPT AS NOTED
9'-10"
9'-10"
ELEV 7-
INFO NOT INDI
BHD 94
℄ SHIP
TRANSV BHD 94
19'-4¾" OFF ℄ LONG'L B
PLAN 7-A (P) SHOWN
UNIT 711 ℄
ENTIRE RUN OF 22.95# PLT TO SHELL
FLR IN SKEG REF
BASE LINE
TRANSV BHD 94
SHELL
SHAFT ALLEY SIDE BHD
19'-4¾" OFF ℄ LONG'L BHD
GIRD 29'-11¾" OFF ℄
GRD 37'-11" OFF ℄
SHELL LONG'L
PLAN 14-A
(P) SHOWN (S) SIM
BHD 94 (PORT - LKG AFT)
(P) DET. (S) SIM OPP HD EXCEPT AS NOTED
SAME AS MEMBER ABV
BHD 94
DET 8-A
241-S11-18-16 A 2
15
14
13
12
11
10
9
8
7

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-17 GD NO. 30331-11×15 FRAME ① 2 3 4

30331-11x15

REVISIONS			Q DIV		M A		OWNER	
ZONE	LTR		DATE	APPD	DATE	APPD	DATE	APPD

REVISIONS			Q DIV		M A		OWNER	
ZONE	LTR		DATE	APPD	DATE	APPD	DATE	APPD
5G,10G 5G,10G	A	1. PLAN APPROVAL IN ACCORDANCE WITH J.J. HENRY CO. PER LTR FILE: 5589/511/AHS-439-69 DATED 12-12-69. 2. REVISED GUNWALE TO SHOW FASHION PLT & BRKT. 3. INDICATED TAPER FOR FACE PLT OF ARCH ON CABIN DK. SOURCE: ITEMS 2 & 3 TO SUIT ITEM 1.	SE JW	1/7/70		—	J	LTR DTD 12-12-69
	B	1. ADDED ABS COMMENTS REGARDING UNCOATED SIZES Prelim						

PRINT DISTRIBUTION

REVISION	0	A	B	C
TO	11/5/9	1/7/0		
LYKES				
MA (WASH)				
MA (YARD)	1	1		
JJHENRY (HOME)	1	1		
JJHENRY (YARD)				
ABS YD	1	1		
USCG	1	1		
USPHS				
Reed 881	1	1		
871	6	6		
872	6	6		
873				
874	1	1		
875		1		
876	2	2		
TPS 866	1	1		
865	1	1		
TOTAL NRO'S FS	20	28		
NRO'S HS				
Z				

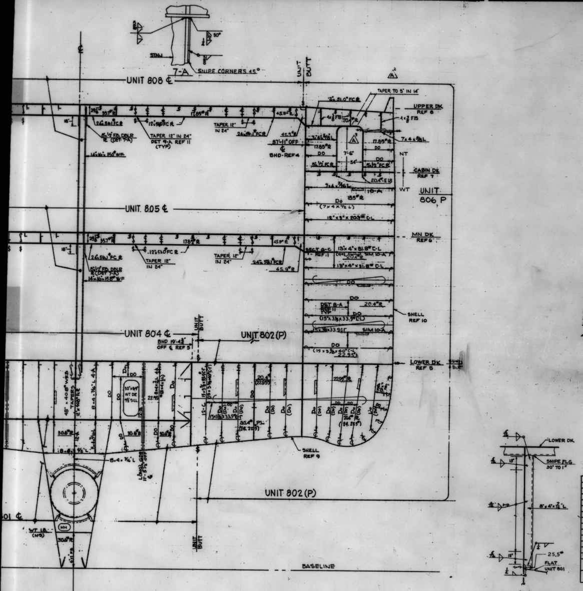
SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	0	11-11-9	800		
			820	5	
			826	12	
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIB	5	
		Lilliane	658	1	
		Lowd	820	1	
		Droper	814	1	
		Comm	824	1	
			822	2	
		Watts	821	1	
		Liaison	650	1	
			TOTAL	30	

MATERIAL SECTION SIGNATURE AREA

0	A	B	C	D	E	F	G							

MA HULL NO	Q DIV HULL NO	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE



7-A
SNIPE CORNERS 45°
STAN
30°
UNIT 808 ℄
UNIT BUTT
TAPER TO 5" IN 14"
UPPER DK REF 8
TAPER 12" IN 24"
DET 9-A REF 11 (TYP)
14"x10"x150# WF
BHD-REF 4
87'-11" OFF ℄
CABIN DK REF 7
NT
WT
UNIT 806 P
UNIT 805 ℄
MN DK REF 6
SECT C-C REF 11
SIM 10-A
DET 8-A REF 11 TYP
SHELL REF 10
UNIT 804 ℄
BHD 19'-4 3/4" OFF ℄ REF 5
UNIT 802 (P)
LOWER DK REF 5
30"x69" WT DR
SHELL REF 9
LONG'L BHD
UNIT 802 (P)
801 ℄
WT 18 (NS)
MH
BASELINE
LOWER DK.
SNIPE FLG 30° TO 1"
25.5#
FLAT UNIT 801
4-A
1/2" = 1'-0"

T & NT TRANSV BHD 99 △A 2,3
LKG AFT-(P) DET. (S) SIM OPP HD
FOR DETAILS & WELDING NOT SHOWN
SEE REF 11.

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. ALL MAT'L TO BE MEDIUM STEEL EXCEPT WHERE NOTED OTHERWISE. ALL STL TO BE IN ACCORDANCE WITH A.B.S SPEC.
4. BHD SCANTLINGS & PLATING SHOWN ON THIS DRAWING HAVE BEEN SIZED USING ALLOWABLE REDUCTIONS FOR SPECIAL COATINGS. WHERE THIS REDUCTION APPLIES, PARENTHESIZED SCANTLINGS & PLATES MEET NORMAL ABS REQUIREMENTS.

NO	TITLE	Q DIV DWG NO	MA DWG NO
11	TRANSV BHD 94	30331-11X14	241-S11-18-16
10	SHELL EXPANSION AFT 64-ABV LOW DK	30351-25x4	241-S11-01-04
9	SHELL EXPANSION AFT 64-BEL LOW DK	30351-25x2	241-S11-01-02
8	UPPER DK-AFT	30343-05x2	241-S11-18-27
7	CABIN DK	30343-04x1	241-S11-18-25
6	MAIN DK-AFT	30343-03x2	241-S11-18-24
5	LOWER DK-AFT	30343-02x2	241-S11-18-22
4	LONG'L BHD 37'-11" OFF ℄ AFT	30332-01x3	241-S11-18-20
3	LONG'L BHD 19'-4 3/4" OFF ℄	30332-01x1	241-S11-18-18
2	STD WELDING DETS	30313-01x02	241-S29-06-01
1	STD STRUCTURAL DETS	30313-01x01	241-S11-17-01

REFERENCES

REV	Q DIV CONTR CHG NO	M A	CONTR HG APPLIC

REV	Q DIV CONTR CHG NO	M A	CONTR HG APPLIC
0	7.01	(LTR)	18,19,20
0	7	3	18,19,20.

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC
DESIGN 35-L-M3

Q DIV DWG NO 30331-11x15

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY, MASS 02169

DFTMN JW
DSGNR LS
CHKD
ENGR

TRANSV BHD 99
SCANTLING

APPROVED DATE 1/5/72
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO	MARITIME ADMINISTRATION NO	REV
25316	241-S11-18-17	A

SCALE 1/4"=1'-0" & AS NOTED SHEET

APPROVAL LTR DATED
ABS 1-20-70
USCG 12-17-69
USPHS Not Req'd

AREA 131 SQ FT

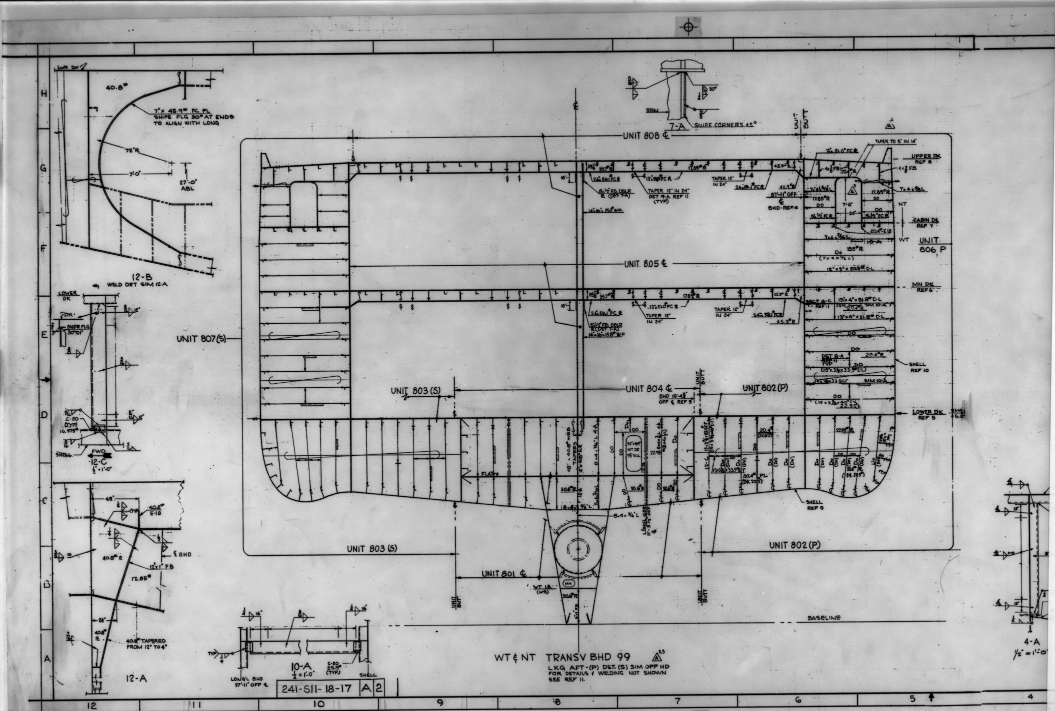
8 7 6 5 4 3 2

H G F E D C B A

DWG NO 30331-11x15

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-S11-18-17 GD NO. 30331-11×15 FRAME 1 ② 3 4

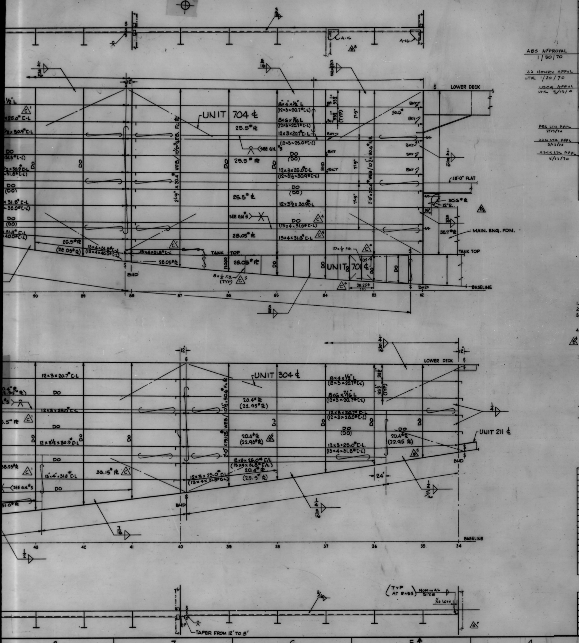

UNIT 808 ℄
UNIT 805 ℄
UNIT 804 ℄
UNIT 807(S)
UNIT 806 P
UNIT 803 (S)
UNIT 802 (P)
UNIT 801 ℄
UPPER DK REF 8
CABIN DK REF 7
MN DK REF 6
LOWER DK REF 5
SHELL REF 10
SHELL REF 9
BASELINE
FLAT
UNIT BUTT
7-A
SNIPE CORNERS 45°
12-B
WELD DET SIM 12-A
12-C
12-A
10-A
1/2" = 1'-0"
4-A
1/2" = 1'-0"
LONG'L BHD 97'-11" OFF ℄
SHELL
72"R
7'-0"
27'-0" ABL
7" x 45.9# FC PL SNIPE FLG 30° AT ENDS TO ALIGN WITH LONG
40.8#
40.8# TAPERED FROM 12" TO 4"
12"x1" FB
17.85#
BHD 19'-4 1/2" OFF ℄ REF 5
TAPER TO 5" IN 14"
14"x10"x150# WF
14"x10"x158# WF
30"x69" WT DR
WT 18 (NS)
MH
DO

WT & NT TRANSV BHD 99

LKG AFT-(P) DET. (S) SIM OPP HD FOR DETAILS & WELDING NOT SHOWN SEE REF 11.

241-S11-18-17 A 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S11-18-18 GD NO. 30332-01x1 FRAME ① 2 3 4



ABS APPROVAL 1/30/70

JJ HENRY APPVL LTR 1/20/70

USCG APPVL LTR 3/19/70

ABS LTR APPL 7/13/70

JJH LTR APPL 5/13/70

USCG LTR APPL 5/13/70

REVISIONS			Q DIV		M A		OWNER	
ZONE	LTR		DATE	APPD	DATE	APPD	DATE	APPD
	A	1. PLAN APPROVED BY J.J. HENRY LETTER FILE: 5589/S11/AHS-200-69 DATED 26 JUNE 69. GM	8/15/69		—	—	LTR 26 JUNE 69	
	B	1. ADDED ROLL STABILIZATION TANK BET. FR 67-70 ADDED DETAIL 17-E, 17-F, 18-E, 18-G, 20-C, 20-D & 20-F & REL. RES. #1 TO SUIT. 2. INDICATED MN. ENG. FDN. & BRKT. FWD. BHD. 82 BET. TANK TOP & 18'-0 FLAT 3. DELETED RESERVATION #2 4. INDICATED NORMAL ABS SCANTLINGS IN WAY OF SPECIAL COATED AREAS & ADDED GEN NOTE 4 & 5 5. CHG. THK. OF PLTG. AT LOWER STRAKE FWD FR 36 & MIDDLE STRAKE FWD FR 40 6. DELETE RECESS IN BHD BET. FR 107 & 108 7. ADDED WELD INFO AT END OF LONG AT BHD 34 8. ADDED BKTS TO BHD LONGLS AT FR 82 & 84 AS NOTED SOURCE. ITEM: 1,2,3,6,7,8 DESIGN DEV 4 & 5 ABS COMMENTS 9/29/69 M.B.	11/17/69		—	—	LTR 1/20/70	
	C	1. DELETED UNCOATED PLATE THICKNESSES AND SHAPES AS REQUIRED BETWEEN FR 40-70 2. BETWEEN FR 64-70 CHANGED ⊏ DESIGNATION TO THE CORRECT SIZE OF 12×3×25.0# ⊏-T 3. WELDING WAS CHANGED BETWEEN FR 58-67½ AT UNDERSIDE OF LOWER DECK PLATING AND AT FR 70 4. DESIGNATION OF LONG #8 BELOW LOWER DK CHANGED TO 13×4×31.8# ⊏-T 5. ADDED 8×½ PANEL STIFF. BETWEEN TANK TOP & SHELL AT 21" FWD FR 82½ TO FR 86 6. PANEL BETWEEN FR 83-83½ (S) CHANGED TO 38.25# ℞ AND ADDED 10×½ F.B. PANEL STIFF. 7. NOTE ADDED TO ELEV. 20-D SOURCE ITEM: 1-7 ABS COMMENTS 1/30/70 WEP	4/13/70		—	—	LTR 5/13/70	

REVISIONS			Q DIV		M A		OWNER	
ZONE	LTR		DATE	APPD	DATE	APPD	DATE	APPD

DISTRIBUTE FROM BOTH BLOCKS

PRINT DISTRIBUTION

REVISION TO	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
			12/18/9	4/17/0	30212 DESIGN ONLY	A	7-16-9	800		
LYKES								820		
MA (WASH)								826		
MA (YARD)		1	1	1				829		
JJ HENRY (HOME)								830		
JJ HENRY (YARD)		1	1	1				841		
ABS 70		1	1	1				842		
USCG		1	1	1				843		
USPHS								844	7	
Rec-899			1	1				899		
								LIB	6	
871		7	6	12						
872		1	6	6						
873										
874		1	1	1						
875			1							
876		1	2	2						
899L		1								
TPS 866		1	1	1						
865			1							
TOTAL NRO'S FS		16	25	27						
TOTAL NRO'S HS										
TOTAL Z								TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. PLATE BUTT & SEAM WELDS TO BE AS FOLLOWS: 5/16 TO 5/8 — OVER 5/8"
4. THE BHD PLTG & SCANTLINGS THICKNESSES SHOWN ON THIS DRAWING TAKE INTO ACCOUNT THE ALLOWABLE REDUCTION FOR SPECIAL COATINGS AND ARE IN ACCORDANCE WITH THE REDUCTIONS SHOWN ON DRAWING NO. 5582-S11-4, ALT "F" (BHD SCANTLINGS). WHERE THIS REDUCTION APPLIES, THE SCANTLINGS IN BRKTS ARE THE NORMAL A.B.S. SCANTLINGS. e.g. 28.05# ℞ (30.6# ℞)
5. SCANTLINGS FWD FR 67 DESIGNED TO A HEAD 4.25' ABV. MN DK, FR 67-70 TO AN OVERFLOW HEIGHT 3'-0" ABV MN DK, FR 82-88 TO A HEAD 4.25' ABV. MN DK & FR 88 AFT TO A HEAD 4.25' ABV CABIN DK.

RESERVATIONS

~~1. RESERVE BHD IN WAY OF STABILIZATION TANK PENDING DEVELOPMENT.~~

~~2. CALLOUT OF TRANSVERSE WEB SCANTLINGS RESERVED PENDING REDESIGN.~~

MA HULL NO	Q DIV HULL NO	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

MICROFILMED C 5-9-73

SEA BARGE CLIPPER

NO	TITLE	Q DIV DWG NO	M A DWG NO
2	STD WELDING DETS	30313-01x02	241-S29-06-01
1	STD STRUCTURAL DETS	30313-01x01	241-S11-17-01

REFERENCES

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC

MARITIME ADMINISTRATION
DESIGN C8-S-82
SINGLE SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC
DESIGN 85 L M3

Q DIV DWG NO 30332-01x1

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY MASS 02169

DFTMN RCJ
DSGNP SAW
SUPV
ENGR

LONG BHD 19'-4 3/4" OFF ℄
(SCANTLINGS)

APPROVED DATE 5/1/9
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS 9-29-9
USCG 3-19-0
USPHS Not Reqd

CODE IDENT NO	MARITIME ADMINISTRATION NO	REV
25316	241-S11-18-18	C

SCALE: 1/4" = 12" SHEET 1 OF 1

AREA ______ SQ FT

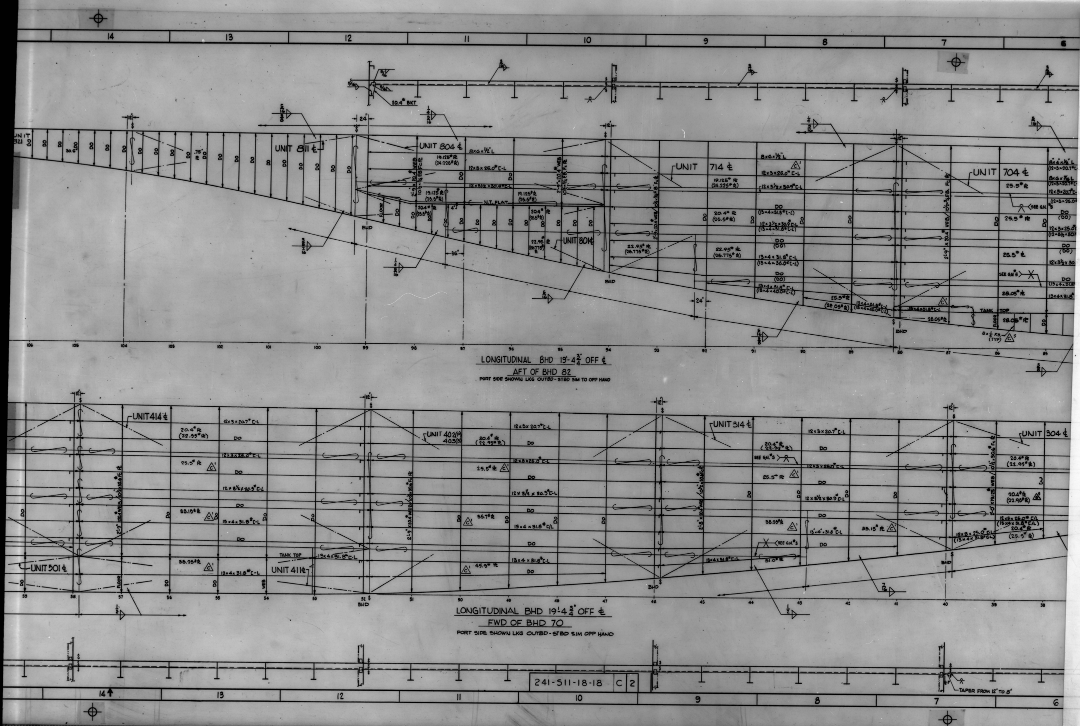
Q DIV DWG NO 30332-01x1

MA DWG NO

GENERAL DYNAMICS, QUINCY

MA NO.241-511-18-18 GD NO. 30332-01x1 NOV, 1973 8X

FRAME 1 ② 3 4

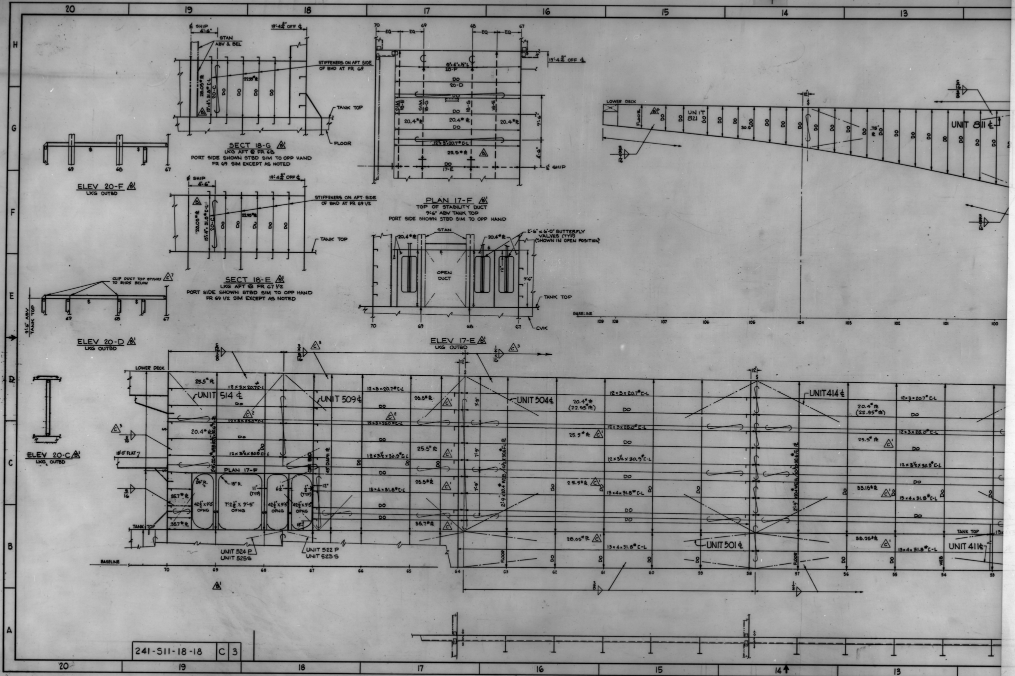

UNIT 811 ℄
UNIT 804 ℄
UNIT 801 ℄
UNIT 714 ℄
UNIT 704 ℄
UNIT 414 ℄
UNIT 402(P) 403(S)
UNIT 314 ℄
UNIT 304 ℄
UNIT 501 ℄
UNIT 411 ℄
UNIT 321
12×3×20.7# ⊏-L
12×3×25.0# ⊏-L
12×3½×30.9# ⊏-L
13×4×31.8# ⊏-L
8×6×½ L
N.T. FLAT
20.4# ℞ (22.95# ℞)
25.5# ℞
28.05# ℞
22.95# ℞ (26.775# ℞)
19.125# ℞ (24.225# ℞)
DO
BHD
FLOOR
TANK TOP
SEE G.N.'S
TAPER FROM 12" TO 8"
20.4# BKT
241-511-18-18 C 2

LONGITUDINAL BHD 19'-4¾" OFF ℄
AFT OF BHD 82
PORT SIDE SHOWN LKG OUTBD - STBD SIM TO OPP HAND

LONGITUDINAL BHD 19'-4¾" OFF ℄
FWD OF BHD 70
PORT SIDE SHOWN LKG OUTBD - STBD SIM OPP HAND

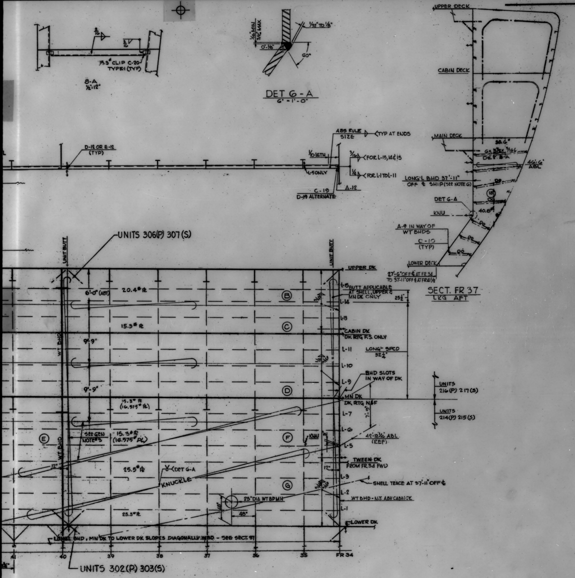
GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-511-18-18 GD NO. 30332-01x1 FRAME 1 2 ③ 4


SECT 18-G
LKG AFT @ FR 68
PORT SIDE SHOWN STBD SIM TO OPP HAND
FR 69 SIM EXCEPT AS NOTED
STAN ABV & BEL
STIFFENERS ON AFT SIDE OF BHD AT FR 69
TANK TOP
FLOOR
19'-4 3/8" OFF ℄
℄ SHIP
ELEV 20-F
LKG OUTBD
PLAN 17-F
TOP OF STABILITY DUCT
9'-6" ABV TANK TOP
PORT SIDE SHOWN STBD SIM TO OPP HAND
SECT 18-E
LKG AFT @ FR 67 1/2
PORT SIDE SHOWN STBD SIM TO OPP HAND
FR 69 1/2 SIM EXCEPT AS NOTED
STIFFENERS ON AFT SIDE OF BHD AT FR 69 1/2
CLIP DUCT TOP STNRS TO BHDS BELOW
9'-6" ABV TANK TOP
ELEV 20-D
LKG OUTBD
2'-6" x 6'-0" BUTTERFLY VALVES (TYP) (SHOWN IN OPEN POSITION)
OPEN DUCT
CVK
ELEV 17-E
LKG OUTBD
ELEV 20-C
LKG OUTBD
LOWER DECK
UNIT 821
UNIT 811 ℄
BASELINE
UNIT 514 ℄
UNIT 509 ℄
UNIT 504 ℄
UNIT 414 ℄
UNIT 501 ℄
UNIT 411 ℄
UNIT 524 P
UNIT 525 S
UNIT 522 P
UNIT 523 S
16'-0" FLAT
TANK TOP
12 x 3 x 20.7# C-L
12 x 3 1/2 x 30.9# C-L
13 x 4 x 31.8# C-L
20.4# ℞
25.5# ℞
35.7# ℞
42 1/2 x 9'-5 OPNG
7'-2 1/2 x 9'-5" OPNG
241-S11-18-18
C 3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-19 GD NO.30332-01×2 FRAME ① 2 3 4

30332-01×2


15.3# CLIP C-20 TYPE I (TYP)
3/16
8-A
1/2"=12"
1/16" MIN
3/16" MAX
1/32" TO 1/8"
0"-1/8"
60°
DET 6-A
6" = 1'-0"
UPPER DECK
CABIN DECK
MAIN DECK
30.6"
6x 5 1/2 x 3/16 L
DEF 8-A
46'-6" ABL
LONG'L BHD 37'-11" OFF ℄ SHIP (SEE NOTE 6)
DET 6-A
KNU
40.8#
A-9 IN WAY OF WT BHDS
C-10 (TYP)
LOWER DECK
27'-6" OFF ℄ AT FR 34 TO 37'-11" OFF ℄ AT FR 41 1/2
SECT. FR 37
LKG AFT
D-12 OR E-12 (TYP)
ABS RULE SIZE
TYP AT ENDS
1/10 LGTH
3/16 FOR L-13, 14 & 15
1/4 FOR L-1 TO L-11
L-5 ONLY
C-19
D-19 ALTERNATE
A-12
UNITS 306(P) 307(S)
UNIT BUTT
UPPER DK
6'-0" (ABT)
20.4# PL
B
L-15 BUTT APPLICABLE AT SHELL, UPPER & MN DK ONLY
25 1/2"
L-14
L-13
15.3# PL
C
CABIN DK
DK RTG F.S. ONLY
9'-9"
L-11
LONG'L SPCD 32 1/4"
L-10
BHD SLOTS IN WAY OF DK
L-9
9'-9"
D
MN DK
DK RTG N&F
15.3# PL (16.575# PL)
UNITS 216(P) 217(S)
UNITS 214(P) 215(S)
7'-9"
L-7
L-6
WT BHD
E
SEE GEN NOTE #3
15.3# PL (16.575# PL)
F
KNU
L-5
42'-12 3/16" ABL (REF)
TWEEN DK FROM FR 34 FWD
12"
25.5# PL
DET 6-A
KNUCKLE
G
L-3
SHELL TRACE AT 37'-11" OFF ℄
L-2
WT BHD - N.T. ABV CABIN DK
23" DIA WT BPMH
48"
48"
L-1
25.5# PL
LOWER DK
LONG'L BHD, MN DK TO LOWER DK SLOPES DIAGONALLY INBD - SEE SECT. 37
41
40
39
38
37
36
35
FR 34
UNITS 302(P) 303(S)

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. BUTT & SEAM WELDS ARE TO BE IN ACCORDANCE WITH APPROVED BUTT WELDS AS SHOWN ON REF #2 EXCEPT AS NOTED. MANUFACTURING MAY EXERCISE THE OPTION TO EDGE PREP EITHER SIDE OF PLT OR SHAPE.
4. CORNER SNIPES TO BE 1½" × 1½" UNLESS OTHERWISE NOTED. THEY MAY BE OMITTED WHERE INDICATED ONLY ON THE DWG. THEY MUST BE FITTED WHERE DIMENSIONED ON THE DWG.
5. SCANTLINGS SHOWN ON THIS DWG TAKE INTO ACCOUNT THE ALLOWABLE REDUCTIONS FOR SPECIAL COATINGS AND ARE IN ACCORDANCE WITH THE REDUCTIONS SHOWN ON DWG 5382-511-2 ALT "E" (SCANTING PROFILE) AS APPROVED BY A.B.S.
6. THE MOLDED LINE OF LONGITUDINAL BHD 37'-11" OFF ℄ IS THE OUTBOARD SIDE OF THE PLATING WHICH IS THE FLUSH SIDE.
7. SCANTLINGS BELOW MAIN DECK ARE DESIGNED TO A HEAD 4.25' ABV. MAIN DK.

REVISIONS			Q DIV		M A		OWNER	
ZONE	LTR		DATE	APPD	DATE	APPD	DATE	APPD

REVISIONS				Q DIV		M A		OWNER	
ZONE	LTR			DATE	APPD	DATE	APPD	DATE	APPD
	A	1. PLAN APPVD IN ACCORD WIT JJ HENRY LTR 5589/511/AHS-37-70 DATED 2-10-70 2. CORRECTED DEPTH OF UPPER DK WEB FRS	[illegible]	3/4/70	[illegible]	—	—	LTR DATED 3/30/70	
Prelim	B	1. REVISED STRAKE IDENTIFICATION MKS TO AGREE WITH REF 3 2. CORRECTED KNU HEIGHT AT BHD 34 3. DELETED UNCOATED SIZES OF LONG'S TO SUIT ABS							

PRINT DISTRIBUTION

REVIS N	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
10	[illegible]						800		
LYKES							820		
MA (WASH)							826		
MA (YARD)	1						829		
JJ HENRY (HOME)							830		
JJ HENRY (YARD)	1						841		
ABS	1						842		
USCG	1						843		
USPHS							844		
Reed 899	1						899		
							LIB		
871 ENGR.									
871	6								
872	6								
873									
874									
875	1								
876	2								
TPS 866	1								
865	1								
TOTAL NRO'S FS	22								
TOTAL NRO'S HS									
Z							TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

MA HULL NO	CONTR HULL NO	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
A 5-10-73

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC
DESIGN 85-L-M3

NO	TITLE	Q DIV DWG NO	MA DWG NO
3	LONG. BHD 37'-11" OFF ℄ AFT	30332-01X3	241-511-18-20
2	STD WELDING DETS	30313-01X02	12-529-06-01
1	STD STRUCTURAL DETS	30313-01X01	12-511-17-01

REFERENCES

Q DIV DWG NO
30332-01×2

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY, MASS 02169

DFTMN RG
DSGNR MP
SUPV
ENGR /MK

LONG'L BHD 37'-11" OFF ℄
-FWD-

APPROVED DATE 1/8/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO	MARITIME ADMINISTRATION NO	REV
25316	241-511-18-19	A

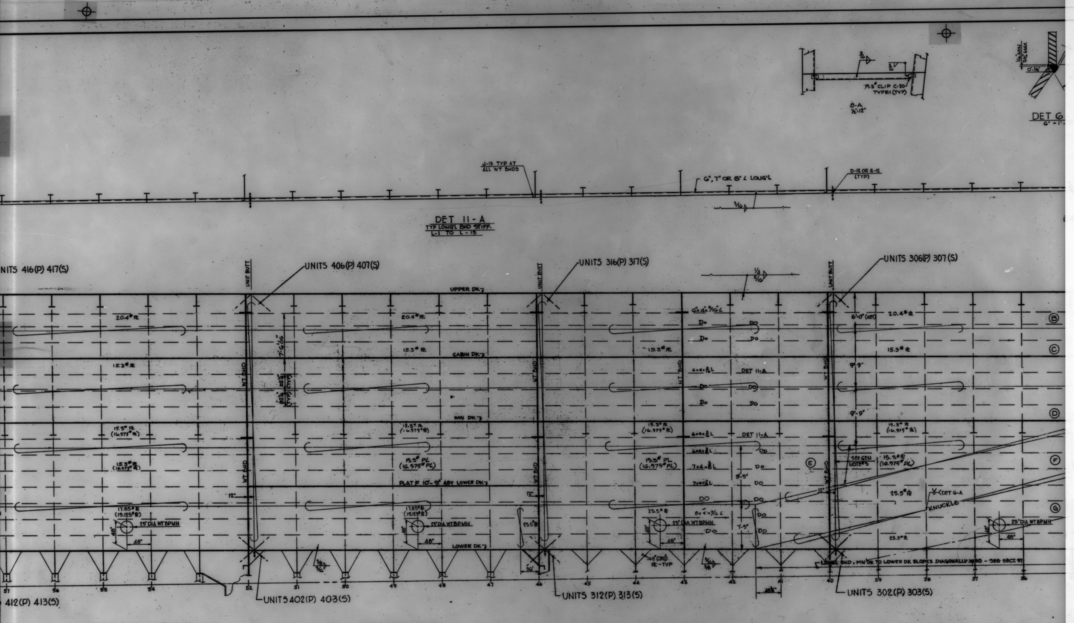
SCALE 1/4"=12"
SHEET 1 OF 1

APPROVAL LTR DATED
ABS 3-31-70
USCG 1/30/70
USPHS [illegible]

REV	Q DIV	M A	CONTR CHG APPLIC
0	7	3	HULL 18,19&20
	CONTR CHG NO		

REV	Q DIV	M A	CONTR CHG APPLIC
0			
	CONTR CHG NO		

AREA 21.0 SQ FT


8-A
½"=1'-0"
15.3# CLIP C-20 TYPE I (TYP)
DET 6
J-13 TYP AT ALL WT BHDS
6", 7" OR 8" ∠ LONG'L
D-12 OR E-12 (TYP)
DET 11-A
TYP LONG'L BHD STIFF. L-1 TO L-15
UNITS 416(P) 417(S)
UNITS 406(P) 407(S)
UNITS 316(P) 317(S)
UNITS 306(P) 307(S)
UNIT BUTT
UPPER DK
CABIN DK
MN DK
PLAT'F 10'-9" ABV LOWER DK
LOWER DK
WT BHD
20.4# ℞
15.3# ℞
15.3# ℞ (16.575# ℞)
17.85# ℞ (19.125# ℞)
25.5# ℞
25" DIA WTBPMH
6x4x5/16 ∠
7x4x⅜ ∠
8x4x7/16 ∠
DO
DET 11-A
SEE GEN NOTE #5
DET G-A
KNUCKLE
.45"(.50) ℞ - TYP
LONG'L BHD, MN DK TO LOWER DK SLOPES DIAGONALLY INBD - SEE SECT. 57
UNITS 412(P) 413(S)
UNITS 402(P) 403(S)
UNITS 312(P) 313(S)
UNITS 302(P) 303(S)
57 56 55 54 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36
B C D E F G

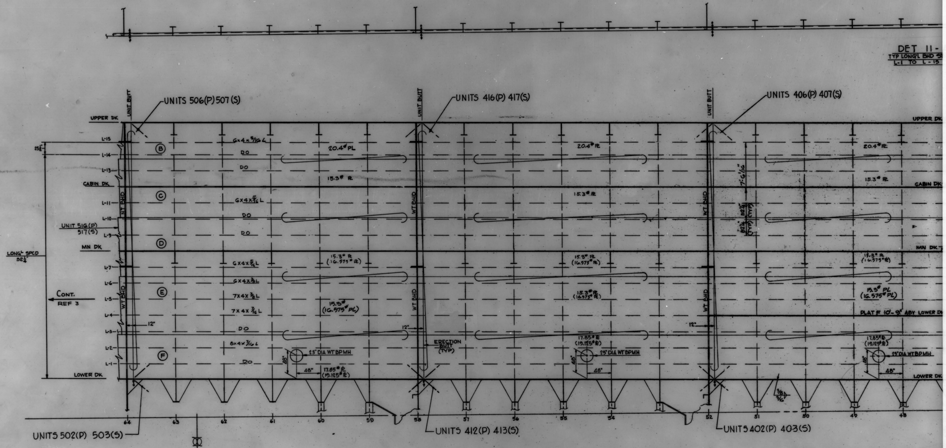
LONG'L BHD 37'-11" OFF ℄

(P) SHOWN LKG OUTBD (S) SIM OPP HD

FRS 35-63 INCLUSIVE
- WEBS (LOWER DK TO MN DK) 36"x.45"(.50)-WEB 10"x.875" FC ℞ AFT FR 46; .45"(.50") ℞ FWD FR 46
- WEBS (MN DK TO CABIN DK) 18"x.44"(.50)-WEB 8"x.50" FC ℞
- WEBS (CABIN DK TO UPPER DK) 18"x.50" - WEB 10"x.875" FC ℞

241-511-18-19	A	2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-19 GD NO.30332-01×2 FRAME 1 2 ③ 4


DET 11-
TYP LONG'L BHD
L-1 TO L-15
UNIT BUTT
UNITS 506(P) 507(S)
UNITS 416(P) 417(S)
UNITS 406(P) 407(S)
UPPER DK
L-15
L-14
L-13
CABIN DK
L-11
L-10
UNIT 516(P)
517(S)
L-9
MN DK
L-7
L-6
L-5
L-4
L-3
L-2
L-1
LOWER DK
25½"
LONG^L SPCD
32¼"
CONT.
REF 3
B
C
D
E
F
6x4x5/16 L
DO
6x4x5/16 L
6x4x3/8 L
7x4x3/8 L
7x4x7/16 L
8x4x7/16 L
20.4# PL
15.3# PL
15.3# PL
(16.575# PL)
17.85# PL
(19.125# PL)
23" DIA WT BP MH
48"
12"
WT BHD
ERECTION BUTT (TYP)
7'-6 1/16"
32¼" (TYP)
PLAT F 10'-9" ABV LOWER DK
3/8
3/16
64
63
62
61
60
59
58
57
56
55
54
52
51
50
49
48
UNITS 502(P) 503(S)
UNITS 412(P) 413(S)
UNITS 402(P) 403(S)

LONG'L BHD 37'-11" OFF ℄

(P) SHOWN LKG OUTBD (S) SIM OPP HD

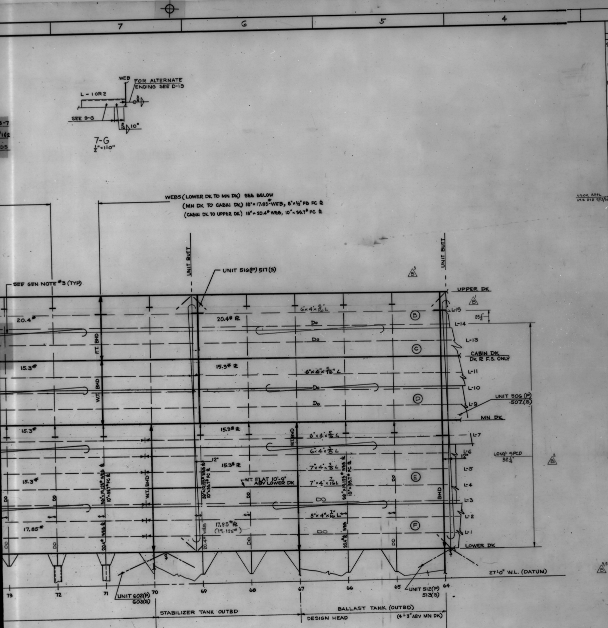
FRS 35-63 INCLUSIVE

WEBS (LOWER DK TO MN DK) 36"x.45" (.50)-WEB 10"x.87
WEBS (MN DK TO CABIN DK) 18"x.44"(.50")-WEB 8"x.50" F
WEBS (CABIN DK TO UPPER DK) 18"x.50" - WEB 10" x.87

241-511-18-19 A 3

19 18 17 16 15 14 13 12

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S11-18-20 GD NO. 30332-01×3 FRAME ① 2 3 4


7
6
5
4
WEB
FOR ALTERNATE ENDING SEE D-19
L-1 OR 2
SEE 9-G
10"
7-G
½"=1'-0"
WEBS (LOWER DK TO MN DK) SEE BELOW
(MN DK TO CABIN DK) 18"×17.85# WEB, 8"×½" FB FC ℞
(CABIN DK TO UPPER DK) 18"×20.4# WEB, 10"×35.7# FC ℞
SEE GEN NOTE #3 (TYP)
UNIT BUTT
UNIT 516(P) 517(S)
UNIT BUTT
UPPER DK
20.4#
20.4# ℞
6"×4"×⅝" L
Do
Do
FT. BHD
15.3#
15.3# ℞
6"×4"×5/16" L
CABIN DK
DK ℞ F.S. ONLY
W.T. BHD
Do
UNIT 506(P) 507(S)
MN DK
15.3#
15.3# ℞
6"×4"×⅝" L
6"×4"×⅜" L
W.T. BHD
15.3# ℞
12"
LONG'L SPCD 32½"
W.T. FLAT 10'-0" ABV LOWER DK
7"×4"×⅜" L
7"×4"×7/16" L
15.3#
DO
8"×4"×7/16" L
17.85#
17.85# ℞ (19.125#)
20.4# WEB
BHD
L-15
L-14
L-13
L-11
L-10
L-9
L-7
L-6
L-5
L-4
L-3
L-2
L-1
LOWER DK
B
C
D
E
F
27'-0" W.L. (DATUM)
73
72
71
70
69
68
67
66
65
64
UNIT 602(P) 603(S)
UNIT 512(P) 513(S)
STABILIZER TANK OUTBD
BALLAST TANK (OUTBD)
DESIGN HEAD
(4'-3" ABV MN DK)

3								
REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
9',10',11' 17' 19' 11',13' 21'	A CONT	5. RADIUS HOLES IN LONG'LS DET 9-G, 11-G & 17-G CHG'D FROM 2"R TO 3"R. 6. LTG & ACCESS HOLES IN LONG. BHD 99 TO 106 ADDED. 7. WEBS AT BHD 82 & 88 INDICATION CORRECTED TO AGREE WITH SCANTLING PROFILE. 8. FASHION PLATE BRACKET FR 102 & 103 DET 21-E MODIFIED TO LAND ON DK LONG. 9. ITEM 2 THRU 8 ARE IN ACCORD WITH ITEM #1.	7/3/69 AH		-	-	LTR DATED 8/5/69	
5'-20' 5',21' 20',5' 19' 20' 8',10' 9',10' 21' 3' 10' 21	B	1. REVISED LOCATION OF L#15 BET FR 64 TO 3" AFT FR 104 FROM 8'-0¾" TO 7'-6 5/16" ABV CABIN DK. 2. ADDED STIFF SPACING DIMENSIONS. 3. REV ℞ STRAKE IDENTIFICATION MKS TO SUIT ADDED REF #4. 4. EXTENDED L#18 FROM FR 102 TO INTERSECTION WITH BULB ANGLE STIFF OF FASHION PLATE. 5. REV LOCATION OF BHD PLTG SEAMS AFT OF BUTT 30" FWD FR 106 TO SUIT ADDED REF #4. 6. REV LOCATION OF 6'-0"×6'-0" C.O. FROM 48" AFT FR 74 TO 45" FWD FR 80 TO SUIT C&A. 7. ADDED 9" RADIUS CORNERS TO C.O. 45" FWD FR 80 & 48" AFT FR 76. 8. DET 21-E - CHG'D FASHION PLATE BRKT FROM FLG PLT TO 18"C. 9. RES #1 DELETED 10. PLAN CALL-OUTS FOR COATED & UNCOATED SIZES AMENDED. 11. NOTE ADDED FOR APPLICATION OF CONTINUOUS WELDS AT END OF SPAN. 12. 21-C CHGD FROM PLT BRKT TO FLGD BRKT. SOURCE: ITEM #1-6, 8, 9 DESIGN DEV ITEM #7, 10-12 ABS COMMENTS.	SE 4/17/70		—		LTR DTD 5/14/70	

USCG APPL LTR DTD 5/13/70

1								
REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
19',20' 11' 18'	A	1. DWG APPROVED IN ACCORDANCE WITH J.J.HENRY LTR. FILE 5589/S11/AHS-259-69 DATED AUG 5, 1969. 2. PLTG STRAKES Ⓔ & Ⓓ BET FRS 101 & 106 INCREASED AS FOLLOWS Ⓔ FROM 17.85# TO 19.125# Ⓓ FROM 16.575# TO 19.125 & ⒺⒻ & Ⓔ FROM 25.5 TO 28.05# PL. 3. ENGR'S PLATF HOIST TRK INDICATED BET FRS 81 & 82 OUTBD OF LONG'L BHD. 4. DRAIN WELL BELOW MN DK OUTBD, BET FRS 101 & 102 P/S INDICATED.						

REVISIONS	O	A	B	C
TO		8-25-9	4-15-0	
LYKES				
M.A.(WASH)				
M.A.(YARD)			1	
J.J.HENRY(YARD)			1	
J.J.HENRY(HOME)				
ABS			1	
USCG			1	
USPHS				
871		6	7	
872		6	6	
873		2	2	
874		1	1	
875				
876		3	3	
RFOD 899		1	1	
TPS 866			1	
TOTAL NRO'S FS		19	25	
TOTAL NRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	8-26-9	800		
30212	B	4-27-0 AF	820	5	
			826	12	
			829		
			830		
			841	3	
			842		
			843		
			844		
			899		
			LIBRARY	5	
		Lord	820	1	
			822	2	
		Doucette	814	1	
		Cameron	824	1	
		Lussier	LYKE	1	
		TPS	866		
		Le Blanc	358	0	
			840	1	
			TOTAL	32	

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REFERENCE #1.
2. FOR WELDING DETS & ADD'L NOTES SEE REFERENCE #2.
3. BUTT & SEAM WELDS ARE TO BE IN ACCORDANCE WITH APPROVED BUTT WELDS AS SHOWN ON REF #2 EXCEPT AS NOTED. MANUFACTURING MAY EXERCISE THE OPTION TO EDGE PREP EITHER SIDE OF PLT OR SHAPE.
4. CORNER SNIPES TO BE 1½"X1½" UNLESS OTHERWISE NOTED. THEY MAY BE OMITTED WHERE INDICATED ONLY ON THE DWG. THEY MUST BE FITTED WHERE DIMENSIONED ON THE DWG.
5. SCANTLINGS SHOWN ON THIS DWG TAKE INTO ACCOUNT THE ALLOWABLE REDUCTIONS FOR SPECIAL COATINGS AND ARE IN ACCORDANCE WITH THE REDUCTIONS SHOWN ON DWG 5382-S11-2 ALT "E" (SCANTLING PROFILE) AS APPROVED BY ABS.

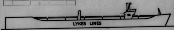
RESERVATIONS

B9 ~~1. CONFIGURATION OF STABILIZER TANK PENDING DEV.~~

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
B 5-70-70

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

B3,5

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
4	CANT SCANTLINGS, SHELL & LONG BHD EXPANSION	30351-25×5	S11-18-34
3	TRANSV WEB FRS 71-73	30321-30X11	S11-18-01
2	STD WELDING DETAILS	30313-01X02	S29-06-01
1	STD STRUCT DETAILS	30313-01X01	S11-17-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
0	7	3	18, 19, 20

Q div DWG NO. 30332-01×3

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN RG/KB
DSGNR FB/HF
SUPV
ENGR BL/MK

SCANTLINGS
LONG'L BHD 37'-11" OFF ℄
(AFT)

APPROVED DATE 7/9/9
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S11-18-20	B

SCALE: ¼"=1'-0" & AS NOTED SHEET 1 OF 1

APPROVAL LTR DATED
ABS 10-20-69
USCG 8-26-69
USPHS NOT REQD

AREA = 22.5 SQ FT

H G F E D C B A

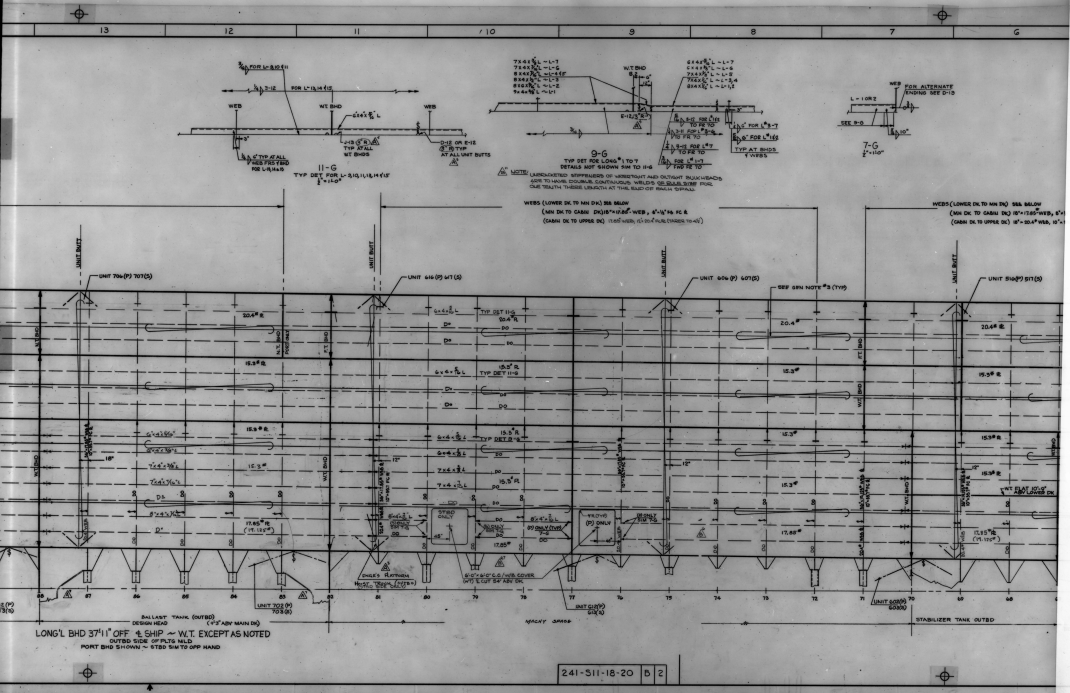
DWG. NO. 30332-01×3

M.A. DWG NO. S11-18-20 SCANTLINGS LONG'L BHD 37'-11" OFF ℄ AFT

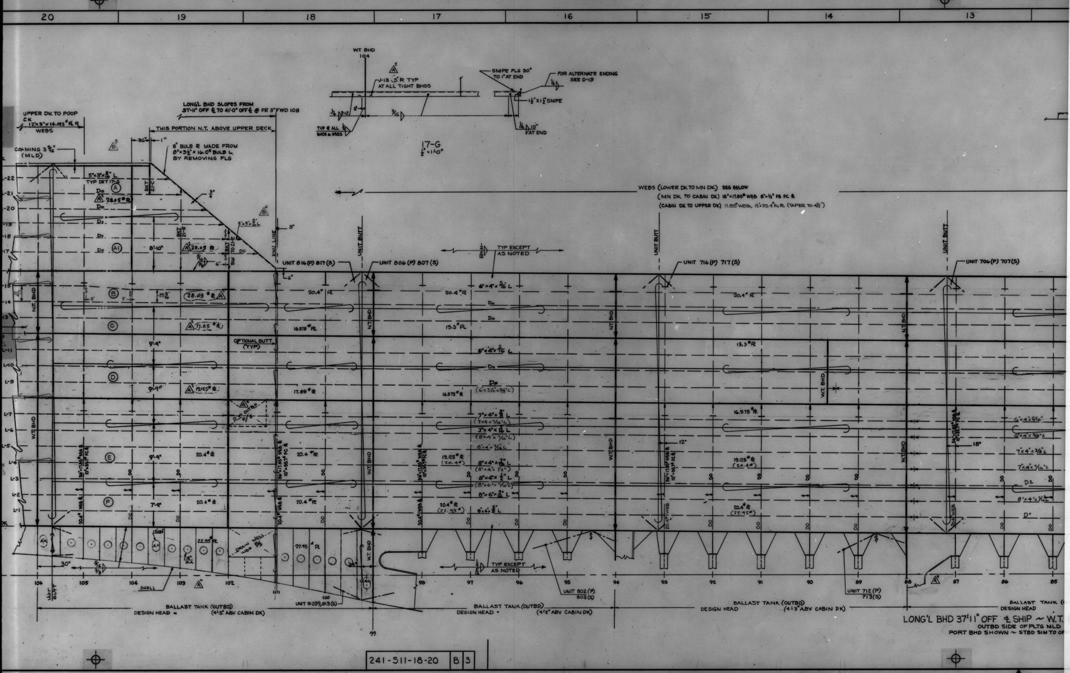
Q div DWG NO. 30332-01×3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-511-18-20 GD NO. 30332-01 ×3 FRAME 1 ② 3 4


13
12
11
10
9
8
7
6
3/16 FOR L-9,10 & 11
1/4 3-12 FOR L-13,14 & 15
WEB
W.T. BHD
6"X4"X 5/16" L
J-13 (3" R) TYP AT ALL W.T. BHDS
D-12 OR E-12 (3" R) TYP AT ALL UNIT BUTTS
1/4 6" TYP AT ALL WEB FRS & BHD FOR L-13,14 & 15
11-G
TYP DET FOR L-9,10,11,13,14 & 15
1/2" = 1'-0"
7X4X3/8 L ~ L-7
7X4X7/16 L ~ L-6
8X4X7/16 L ~ L-4 & 5
8X4X1/2 L ~ L-3
8X6X9/16 L ~ L-2
9X4X9/16 L ~ L-1
W.T. BHD
6X4X5/16 L ~ L-7
6X4X3/8 L ~ L-6
7X4X3/8 L ~ L-5
7X4X1/2 L ~ L-3,4
8X4X7/16 L ~ L-1,2
E-12 (3" R)
3-12 FOR L 1 & 2 TO FR 70
3-11 FOR L 3-6 TO FR 70
3-12 FOR L 7 TO FR 70
FOR L 1-7 FWD FR 70
6" FOR L 3-7
6" FOR L 1 & 2
TYP AT BHDS & WEBS
9-G
TYP DET FOR LONG 1 TO 7
DETAILS NOT SHOWN SIM TO 11-G
NOTE: UNBRACKETED STIFFENERS OF WATERTIGHT AND OILTIGHT BULKHEADS ARE TO HAVE DOUBLE CONTINUOUS WELDS OF RULE SIZE FOR ONE TENTH THERE LENGTH AT THE END OF EACH SPAN.
WEB
FOR ALTERNATE ENDING SEE D-13
L - 1 OR 2
SEE 9-G
10"
7-G
1/2" = 1'-0"
WEBS (LOWER DK TO MN DK) SEE BELOW
(MN DK TO CABIN DK) 18"×17.85#-WEB, 6"×1/2" FG FC R
(CABIN DK TO UPPER DK) 17.85# WEB, 12"×20.4# F.C.R. (TAPER TO 4 1/2")
WEBS (LOWER DK TO MN DK) SEE BELOW
(MN DK TO CABIN DK) 18"×17.85#-WEB, 8"×
(CABIN DK TO UPPER DK) 18"×20.4# WEB, 10"×
UNIT BUTT
UNIT 706(P) 707(S)
UNIT 616(P) 617(S)
UNIT 606(P) 607(S)
SEE GEN NOTE 3 (TYP)
UNIT 516(P) 517(S)
20.4# R
15.3# R
17.85# R (17.125#)
W.T. BHD
N.T. BHD PORT ONLY
F.T. BHD
6×4×5/16 L
TYP DET 11-G
TYP DET 9-G
DO
6"×4"×5/16"
6"×4"×3/8" L
7"×4"×3/8" L
7"×4"×7/16" L
8"×4"×1/2" L
7×4×3/8 L
7×4×7/16 L
8"×4"×7/16" L
18"
12"
STBD ONLY
45"
(S) ONLY SIM 7-G
(P) ONLY (TYP) 7-G
(P) ONLY
FR (TYP)
(S) ONLY SIM 7-G
W.T. FLAT 10'-0" ABV LOWER DK
ENGR'S PLATFORM
HOIST TRUNK (OUTBD) (STBD SIDE ONLY)
6'-0"×6'-0" C.O. W/B COVER (WT) ℄ CUT 54" ABV DK
88
87
86
85
84
83
82
81
80
79
78
77
76
75
74
73
72
71
70
69
68
65
UNIT 702(P) 703(S)
UNIT 612(P) 613(S)
UNIT 602(P) 603(S)
BALLAST TANK (OUTBD) DESIGN HEAD (4'-3" ABV MAIN DK)
MACHY SPACE
STABILIZER TANK OUTBD
LONG'L BHD 37'-11" OFF ℄ SHIP ~ W.T. EXCEPT AS NOTED
OUTBD SIDE OF PLTG MLD
PORT BHD SHOWN ~ STBD SIM TO OPP HAND
241-511-18-20 B 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-511-18-20 GD NO. 30332-01 ×3 FRAME 1 2 ③ 4

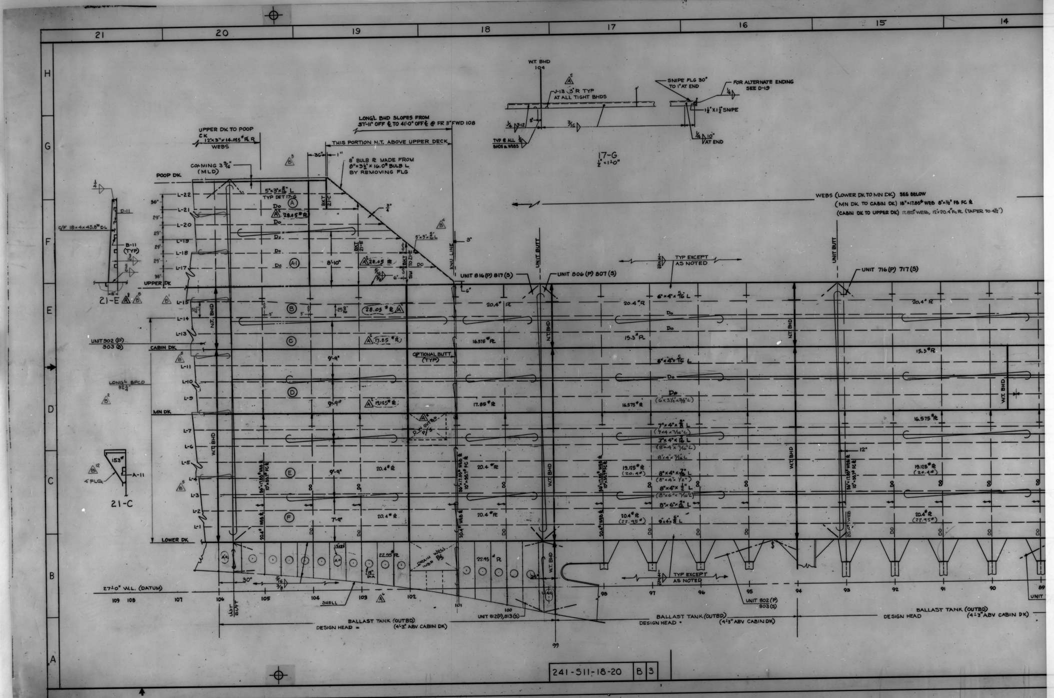

20
19
18
17
16
15
14
13
W.T. BHD 104
J-13 3" R TYP AT ALL TIGHT BHDS
TYP @ ALL BHDS & WEBS
SNIPE FLG 30° TO 1" AT END
FOR ALTERNATE ENDING SEE D-19
1½" X 1½" SNIPE
¼ 10" AT END
17-G
½" = 1'-0"
UPPER DK TO POOP DK
12"×3"×14.025# FL R WEBS
LONG'L BHD SLOPES FROM 37'-11" OFF ℄ TO 41'-0" OFF ℄ @ FR 3" FWD 108
THIS PORTION N.T. ABOVE UPPER DECK
COAMING 3 5/16 (MLD)
8" BULB R MADE FROM 8"×3½"×16.0# BULB L BY REMOVING FLG
5"×3"×5/16" L TYP DET 17-G
28.05# R
20.05# R
8'-10"
KNU LINE
UNIT BUTT
TYP EXCEPT AS NOTED
WEBS (LOWER DK TO MN DK) SEE BELOW
(MN DK TO CABIN DK) 18"×17.85# WEB 8"×½" FB FC R
(CABIN DK TO UPPER DK) 17.85 WEB, 12"×20.4# F.R. (TAPER TO 4½")
UNIT 816(P) 817(S)
UNIT 806(P) 807(S)
UNIT 716(P) 717(S)
UNIT 706(P) 707(S)
N.T. BHD
W.T. BHD
20.4# R
17.85# R
16.575# R
15.3# R
19.125# R
22.95# R
OPTIONAL BUTT (TYP)
9'-9"
9'-4"
7'-9"
6"×4"×5/16" L
(6"×3½"×3/8" L)
7"×4"×3/8" L
(7"×4"×7/16" L)
8"×4"×7/16" L
8"×4"×½" L
8"×6"×½" L
D.W. OUTBD
DRAIN WELL INBD
12"
18"
30"
SHELL
106
105
104
103
102
101
100
99
98
97
96
95
94
93
92
91
90
89
88
87
86
85
UNIT 812(P), 813(S)
UNIT 802(P) 803(S)
UNIT 712(P) 713(S)
BALLAST TANK (OUTBD)
DESIGN HEAD = (4'-3" ABV CABIN DK)
L-1
L-2
L-3
L-4
L-5
L-6
L-7
L-9
L-10
L-11
L-13
L-14
L-15
L-17
L-18
L-19
L-20
L-21
L-22
A
A-1
B
C
D
E
F
Do

LONG'L BHD 37'-11" OFF ℄ SHIP ~ W.T. EXCEPT AS NOTED
OUTBD SIDE OF PLTG MLD
PORT BHD SHOWN ~ STBD SIM TO OPP HAND

241-511-18-20 | B | 3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-511-18-20 GD NO. 30332-01 ×3 FRAME 1 2 3 ④


21
20
19
18
17
16
15
14
H
G
F
E
D
C
B
A
W.T. BHD 104
J-13 3" R TYP AT ALL TIGHT BHDS
TYP @ ALL BHDS & WEBS
SNIPE FLG 30° TO 1" AT END
FOR ALTERNATE ENDING SEE D-19
1½" X 1½" SNIPE
10" AT END
17-G
½" = 1'-0"
UPPER DK TO POOP DK 12"×3"×14.025# FL R WEBS
LONG'L BHD SLOPES FROM 37'-11" OFF ℄ TO 41'-0" OFF ℄ @ FR 3" FWD 108
THIS PORTION N.T. ABOVE UPPER DECK
CAMBER 3 3/16" (MLD)
8" BULB R MADE FROM 8"×3½"×16.0# BULB L BY REMOVING FLG
POOP DK
5"×3"×5/16" L TYP DET 17-G
28.05# R
28.05 R
8'-10"
KNU LINE
UNIT 816(P) 817(S)
UNIT 806(F) 807(S)
UNIT 716(P) 717(S)
TYP EXCEPT AS NOTED
WEBS (LOWER DK TO MN DK) SEE BELOW
(MN DK TO CABIN DK) 18"×17.85# WEB 8"×½" FB FC R
(CABIN DK TO UPPER DK) 17.85# WEB, 12"×20.4# FC R (TAPER TO 4½")
C/F 18×4×45.8# DL
D-11
B-11 (TYP)
21-E
21-C
A-11
4" FLG
15.3#
L-22
L-21
L-20
L-19
L-18
L-17
L-15
L-14
L-13
L-11
L-10
L-9
L-7
L-6
L-5
L-4
L-3
L-2
L-1
UPPER DK
CABIN DK
MN DK
LOWER DK
UNIT 302 (P) 303 (S)
LONG'L SPCD 32¼"
N.T. BHD
W.T. BHD
UNIT BUTT
OPTIONAL BUTT (TYP)
20.4# R
28.05# R
17.85# R
16.575# R
15.3# R
19.125# R
9'-9"
7'-9"
6"×4"×5/16" L
Do
(6"×3½"×5/16" L)
7"×4"×3/8" L (7"×4"×7/16" L)
8"×4"×7/16" L
8"×4"×½" L
8"×6"×9/16" L
9"×4"×5/8" L
19.125# (20.4#)
20.4# (22.95#)
36"×17.85# WEB R 10"×35.7# FC R
20.4# WEB R
D.W. OUTBD 6/5
DRAIN WELL INBD 5/6
22.95# R
19" DIA
30"
27'-0" W.L. (DATUM)
109
108
107
106
105
104
103
102
101
100
99
98
97
96
95
94
93
92
91
90
89
UNIT BUTT
SHELL
UNIT 812(P), 813(S)
UNIT 802(P) 803(S)
BALLAST TANK (OUTBD) DESIGN HEAD = (4'-3" ABV CABIN DK)
12"
3"
6"
241-511-18-20 B 3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-21 GD NO. 30343-02x1 FRAME ① 2 3 4

30343-02x1

ZONE	LTR	REVISIONS	Q DIV DATE	Q DIV APPD	M A DATE	M A APPD	OWNER DATE	OWNER APPD
—	A	1. PLAN APPROVED BY JJ HENRY CO PER LTR FILE: 5589/S11/AHS-398-69 DATED NOV.13, 1969.		12/4/9	H	—	—	LTR 11-13-9
	B	1. SHELL STRINGER BET. 15" AFT FR 10 & BHD 22 CHG'D FROM 43"x6x 17.85#/20.4#T TO 36"x8"x 17.85#/30.6#T TO AGREE WITH REF #4. 2. SHELL STRINGER BET FR 22 TO 24 FC PLT CHG'D FROM 6"x½" TO 8"x1" & WEB CHG'D FROM 17.85# TO 16.575#. 3. HATCHWAY(P) AFT OF BHD 24 RELOCATED TO AGREE WITH ARRG'T. 4. MANHOLE 7'3" OF ℄ P/S RELOCATED FROM 36" AFT TO 24" AFT FR 26. WITH ARRG'T 5. DRAIN WELL AFT FR 34 P/S OUTBD OF LONG. #10 RELOCATED TO FWD FR 32 BET LONG'L #3 & 5. RES #2 & 4 RELEASED 6. LONG'LS #7 & 8 BET FRS 28 & 34 RELOCATED TO SUIT THE INCREASED DEPTH OF SHELL WEBS BELOW DK. CONT ABV (PANEL 3)		4/27/70	H	—	—	LTR 5-14-70

ABS 6-17-70

USCG 5-13-70

ZONE	LTR	REVISIONS	Q DIV DATE	Q DIV APPD	M A DATE	M A APPD	OWNER DATE	OWNER APPD
	B (CONT)	7. MANHOLE 7'3" OFF ℄ P/S RELOCATED FROM 24" FWD TO 52" FWD FR 34. TO AGREE WITH ARRG'T. 8. TRANSV INTCL 7x4x⅜"L BEL DK OUTBD OF L #4 ABT 5'-0" FWD FR 34 DELETED. 9. STANCHIONS AT FR 26, 30, & 32 INDICATED AT ℄ SHIP & SIZES ADDED. RES #3 RELEASED. 10. LONG'L SEAM IN PLTG 27'-0" OFF ℄ BET FRS 34-40 & DIAG. SEAM OUTBD OF L #13 DELETED. NEW SEAM ADDED BET 28'-0" OFF ℄ AT 12" FWD 34 TO 29'-10" OFF ℄ AT 12" FWD FR 40. 6x½" FB ADDED BET FRS 36 & 37 11. RES #1 RELEASED TO AGREE WITH ITEMS 3, 4, & 7 ABV 12. LONG. #11 - 16x7½x50# I-T FWD & AFT OF BHD 40 DELETED AND 8x4x7/16"L ADDED P/S TO SUIT DEVELP. OF BHD 40. 13. LONG. #1, 2 FWD FR 64 MODIFIED & DET 20-B CORRECTED TO AGREE. LONG. #3 FWD FR 64-16x7x50# & DET 20-D DELETED & 7x4x7/16"L ADDED. LONG. #6 MODIFIED TO SUIT DEVELOPEMENT.						

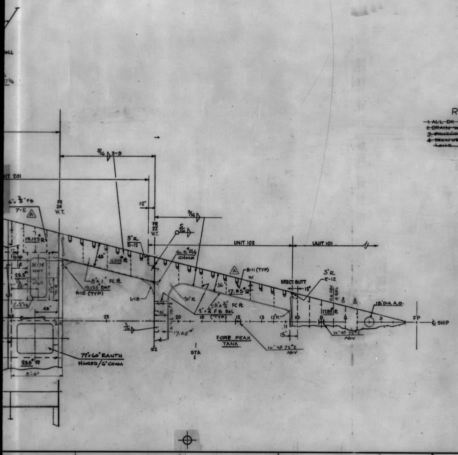
PRINT DISTRIBUTION

REVISION TO	O	A 12/10/9	B 4/24/0	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
LYKES								800		
MA (WASH)								820		
MA (YARD)			1					826		
JJ HENRY (HOME)								829		
JJ HENRY (YARD)		1	1					830		
ABS		1	1					841		
USCG		1	1					842		
USPHS								843		
Reed 899		1	1					844		
								899		
								LIB		
871		6	7							
872		6	6							
873										
874		1	1							
875		1								
876		2	2							
TPS 866		1	1							
865		1								
TOTAL NRO'S FS		23	22							
TOTAL NRO'S HS										
TOTAL Z								TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

MA HULL NO	Q DIV HULL NO	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES



RESERVATIONS

~~1. ALL DK OPENINGS PENDING G & A DEV.~~
~~2. DRAIN WELL OPENINGS PENDING PIPING DEV.~~
~~3. STANCHIONS & WEB FRS FWD FR 24 PENDING DEV.~~
~~4. DRAIN WELL FR 34 TO 35 PENDING LOCATION OF LONG. BHD.~~

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. THE DK PLTG & SCANTLING THICKNESSES SHOWN ON THIS DRAWING TAKE INTO ACCOUNT THE ALLOWABLE REDUCTION FOR SPECIAL COATINGS AND ARE IN ACCORDANCE WITH THE REDUCTIONS SHOWN ON DRAWING NO. 5382-S11-3, ALT "C". WHERE THIS REDUCTION APPLIES, THE SCANTLINGS IN BRKTS ARE THE NORMAL ABS SIZES
4. ALL MAT'L TO BE M.S. EXCEPT WHERE NOTED OTHERWISE ALL STEEL TO BE IN ACCORDANCE WITH ABS. SPEC.
5. BUTT & SEAM WELDS ARE TO BE IN ACCORDANCE WITH APPROVED FULL PENETRATION BUTT WELDS AS SHOWN ON REF NO. 2, EXCEPT AS NOTED. MANUFACTURING MAY EXERCISE THE OPTION TO EDGE PREP EITHER SIDE OF PLATE OR SHAPE.

REFERENCES

NO	TITLE	Q DIV DWG NO	M A DWG NO
5	LONG BHD 37'-11" OFF ℄	30332-01X03	241-S11-18-20
4	SHELL EXP FWD 64 BEL LOWER DK	30351-25X01	241-S11-01-01
3	LOWER DK PLATING AFT	30343-02X02	241-S11-18-22
2	STD WELDING DETS	30313-01X02	241-S29-06-01
1	STD STRUCTURAL DETS	30313-01X01	241-S11-17-01

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC
0	7	3	18, 19, 20

SEABEE

MICROFILMED
B 5-10-73

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC
DESIGN 85-L-M3

Q DIV DWG NO 30343-02x1

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY, MASS 02169

DFTMN. EHM, AH.
DSGNR. AH
SUPV.
ENGR. EH/MK.

LOWER DK PLATING FWD
SCANTLING

APPROVED DATE 10/14/69
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO	MARITIME ADMINISTRATION NO	REV
25316	241-S11-18-21	B

SCALE: ¼"=12" & AS NOTED SHEET

APPROVAL LTR DATED
ABS 12-3-69
USCG 11-6-69
USPHS No. Reqd

AREA ______ SQ FT

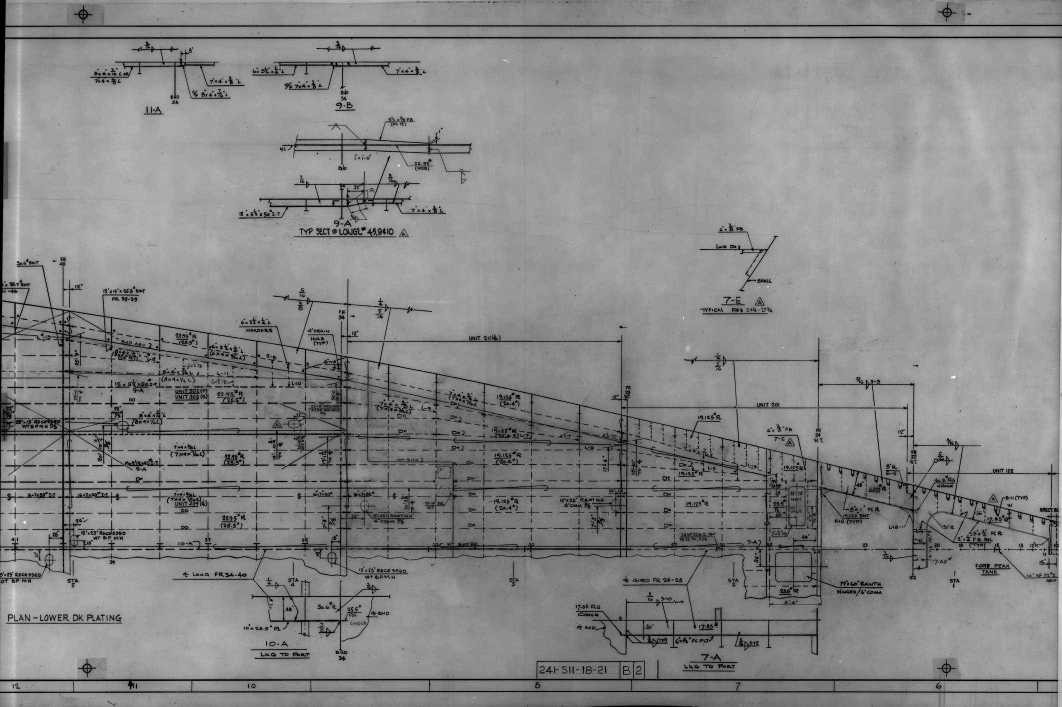
MA DWG NO 241-511-18-21

LOWER DK PLATING FWD SCANTLING

Q DIV DWG NO 30343-02x1

GENERAL DYNAMICS, QUINCY NOV. 1973 8X

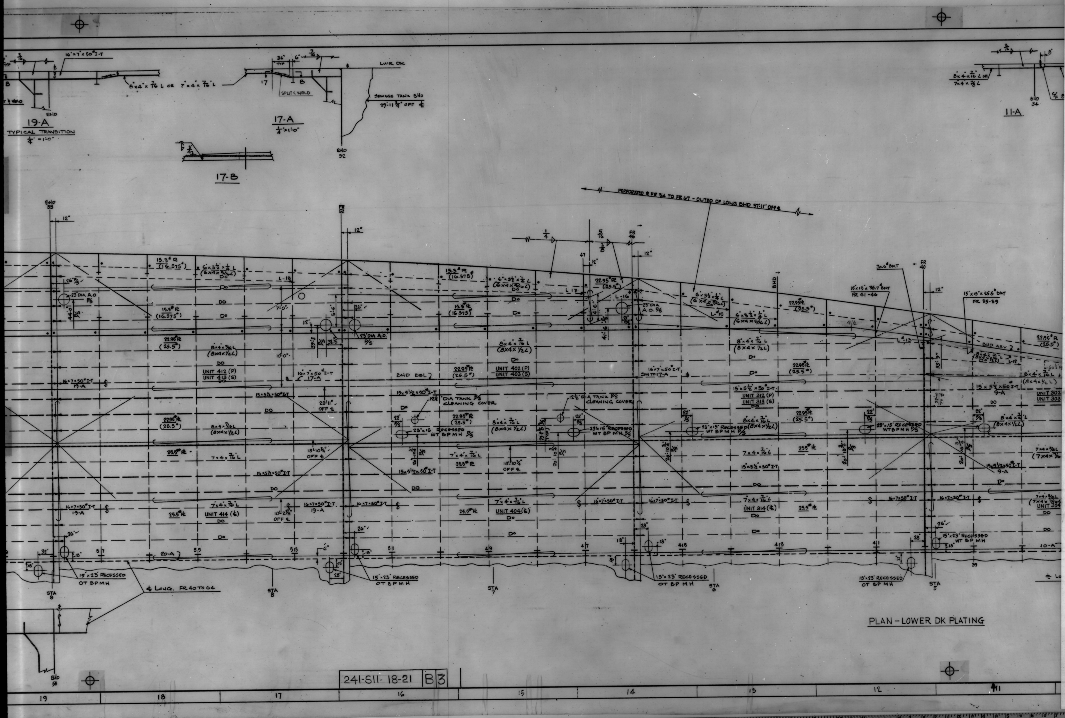
MA NO. 241-S11-18-21 GD NO. 30343-02x1 FRAME 1 ② 3 4



11-A
9-B
BHD 34
9-A
TYP SECT. @ LONGL'S 4,5,9 & 10 Ⓐ
7-E Ⓐ
TYPICAL FRS 24 1/4 - 27 3/4
LWR DK
SHELL
6" x 3/8" FB
UNIT 211 (℄)
UNIT 201
UNIT 102
UNIT 302 (P)
UNIT 303 (S)
UNIT 304 (℄)
FR 40
FR 34
FR 28 W.T.
FR 24 W.T.
FR 22 W.T.
22.95# R (25.5#)
19.125# R (20.4#)
15" x 23" RECESSED WT BP MH
15" x 23" RAWTMH 4" COAM
72" x 60" RANTH HINGED / 6" COAM
4" DRAIN HOLE (TYP)
HEADERS
WT BHD
D.W. BEL WT
FORE PEAK TANK
CHOCK
ERECT. BL
STA 5
STA 4
STA 3
STA 2
STA 1
℄ LONG FR 34-40
℄ GIRD FR 24-28
PLAN - LOWER DK PLATING
10-A
LKG TO PORT
7-A
LKG TO PORT
17.85 FLG CHOCK
℄ BHD
6" x 1/2" FC PLT
10" x 25.5# PL
30.6# R
25.5# FLG

241-S11-18-21 B 2

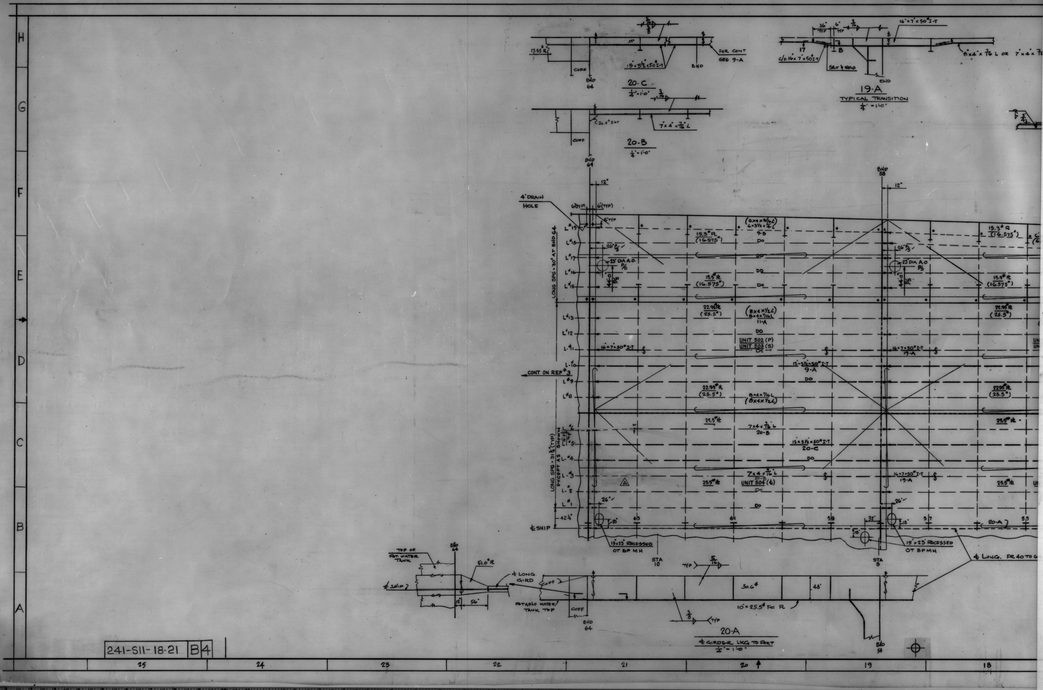
12 11 10 8 7 6


19-A
TYPICAL TRANSITION
¾" = 1'-0"
16"×7×50# I-T
8×4×7/16 L OR 7×4×7/16 L
BHD
17-A
¼" = 1'-0"
36" TYP
SPLIT & WELD
LWR DK
SEWAGE TANK BHD
29'-11¾" OFF ℄
BHD 52
17-B
11-A
8×4×7/16 L OR 7×4×3/8 L
BHD 34
BHD 53
FR 52
FR 46
FR 40
47
PERFORATED ℄ FR 34 TO FR 67 - OUTBD OF LONG BHD 37'-11" OFF ℄
15.3# R (16.575")
6×3½×½ L (6×4×5/16 L)
DO
15.3# R (16.575")
22.95# R (25.5")
8×4×7/16 L (8×4×½ L)
UNIT 412 (P)
UNIT 413 (S)
UNIT 402 (P)
UNIT 403 (S)
UNIT 312 (P)
UNIT 313 (S)
UNIT 302
UNIT 303
UNIT 414 (℄)
UNIT 404 (℄)
UNIT 314 (℄)
UNIT 304
23" DIA A.O. P/S
23" DIA A.O. P/S
23" DIA A.O. P/S
BHD BEL
BHD ABV
16×7×50# I-T 17-A
16×7×50# I-T 19-A
15×5½×50# I-T
15×5½×50# I-T 9-A
28'-11" OFF ℄
19'-10¾" OFF ℄
18'-10¾" OFF ℄
10'-2¾" OFF ℄
12½" DIA TANK P/S CLEANING COVER
23"×15" RECESSED WT BPMH P/S
7×4×7/16 L
7×4×3/8 L (7×4×7/16 L)
25.5# R
30.6# BKT
15×15×36.7 BKT FR 41-46
15×15×25.5 BKT FR 35-39
L-18
L-17
L-16
L-15
L-13
L-12
15"×23" RECESSED OT BPMH
15"×23" RECESSED WT BPMH
℄ LONG. FR 40 TO 64
20-A
10-A
STA 9
STA 8
STA 7
STA 6
STA 5
BHD 58
241-S11-18-21 B3
19
18
17
16
15
14
13
12
11

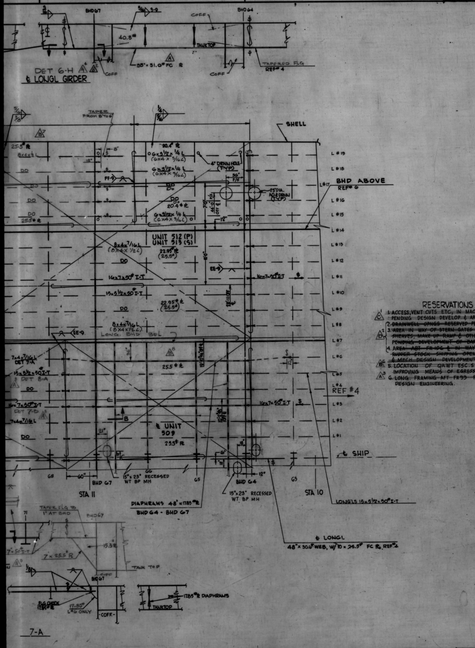
PLAN - LOWER DK PLATING

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S11-18-21 GD NO. 30343-02x1 FRAME 1 2 ③ 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S11-18-21 GD NO. 30343-02x1 FRAME 1 2 3 ④


H
G
F
E
D
C
B
A
20-C
$\frac{1}{4}$" = 1'-0"
20-B
$\frac{1}{4}$" = 1'-0"
19-A
TYPICAL TRANSITION
$\frac{1}{4}$" = 1'-0"
15×5½×50# I-T
FOR CONT SEE 9-A
COFF
BHD 64
7"×4"×$\frac{7}{16}$" L
16"×7"×50# I-T
C/F 16×7×50 I-T
SPLIT & WELD
8×4"×$\frac{7}{16}$ L OR 7"×4"×$\frac{7}{16}$
BHD 58
12"
4" DRAIN HOLE
LONG SPG = 30" AT BHD 64
LONG SPG = 31⅞" (TYP) EXCEPT AS SHOWN
23" DIA A.O.
15.3# R (16.575")
22.95# R (25.5")
(6×4×$\frac{9}{16}$ L) 6×3½×$\frac{1}{2}$ L 9-B
(8×4×½ L) 8×4×$\frac{7}{16}$ L 11-A
UNIT 502 (P)
UNIT 503 (S)
UNIT 504 (℄)
DO
16×7×50# I-T
19-A
15×5½×50# I-T
9-A
20-C
7×4×$\frac{7}{16}$ L
20-B
25.5# R
CONT ON REF #3
℄ SHIP
15×23 RECESSED OT BP MH
STA 10
STA 9
℄ LONG. FR 40 TO 6
TOP OF POT. WATER TANK
51.0# R
℄ LONG GIRD
POTABLE WATER TANK TOP
30.6#
48"
10"×25.5# FC R
20-A
℄ GIRDER LKG TO PORT
$\frac{1}{4}$" = 1'-0"
BHD 58
241-S11-18-21 B4
25
24
23
22
21
20
19
18

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-511-18-22 GD NO. 30343-02x02 FRAME ① 2 3 4


DET 6-H
℄ LONGL GIRDER
BHD 67
BHD 64
COFF
40.8#
TANKTOP
35"× 31.0# FC ℞
TAPERED FLG
REF #4
SHELL
BHD ABOVE
REF #6
UNIT 512 (P)
UNIT 513 (S)
22.95# ℞ (25.5#)
25.5# ℞
16×7×50# I-T
15×5½×50# I-T
8×4×7/16 L (8×4×½ L)
6×3½×¼ L (6×4×5/16 L)
4" DRAIN HOLE (TYP)
25 DIA. ACC & DRAIN (TYP)
LONG. BHD BEL
DET 7-A
DET 8-A
DET 7-B
℄ UNIT 509
℄ SHIP
15"×23" RECESSED WT BP MH
BHD G7
BHD G4
STA 11
STA 10
DIAPHRAMS 48"×17.85# ℞
BHD G4 - BHD G7
LONGL'S 15×5½×50# I-T
℄ LONGL
48"×30.6# WEB, W/10×25.5# FC ℞, REF #4
TAPER FLG TO 1" AT BHD
7×25.5# ℞
TANK TOP
17.85# ℞ DIAPHRAMS
FLG CHECK 17.85# ℞
L#6 ONLY
COFF.
7-A
L#1
L#2
L#3
L#4
L#5
L#6
L#7
L#8
L#9
L#10
L#11
L#12
L#13
L#14
L#15
L#16
L#17
L#18
L#19
REF #4
DO
6
5
4
3
2
1

ABS LTR 4-3-70
USCG LTR 1-30-70
J.J. HENRY LTR 2/6/70
FILE: 5589/511/ABS-52-70

REVISIONS ZONE	LTR		Q DIV DATE	Q DIV APPD	M A DATE	M A APPD	OWNER DATE	OWNER APPD
21' 19' 6' 6' 7' 12', 16'	A	1. DRWG APPROVED BY J.J. HENRY LTR FILE 5589/511/AHS-261-69 DATED 8/7/69 2. W.T. BHD FR. 107 INDICATED 3. SIZE OF LONG'L BET 24" AFT FR 99 - FR 108 INDICATED 4. DET 6-H ADDED TO TITLE OF ℄ LONG. GIRDER & WORD SPLAY. CHG'D TO TAPERED. 5. COFFERDAM & DIAPHRAM PLATES BET FR 64 & 67 INDICATED & DIMENSION WIDTH OF TAPERED FLG ADDED. 6. LONG. WT BHD BEL P/S AFT FR 82 AT L #7 & WT BHD ABV P/S AT L-#14 FWD FR 99 LABELLED.						
8 & 9' 7 & 8' 13'	A CONT	7.-LONG. #15 & 19 STBD VIEW CORRECTED TO AGREE WITH PORT SIDE AND DET 14-H ADDED. 8.-DET 7-B MODIFIED AND ADDED TO L-#3 & #11, DET 8-A ADDED TO L-#5 & #10. DET 14-J ADDED TO L-#8 & 13. 9. ITEMS 2 THRU 8 ARE IN ACCORD WITH ITEM #1.	8/21/69	AH	–	–	LTR DATED 8/7/69	
5, 11 7 6 & 10 4 4 6, 7 6	B	1. INCR WGT OF ℞ & REV WELD OF SAME BET FR 70 & 83 OUTBD OF 37'-11" BHD TO SUIT ABS REQ. (WRE 310) 2. RELOC ERECTION BUTT BET ℄ UNITS 514 & 604 TO SUIT YARD REQUEST. 3 REV ARR OF ℄ GIRDER FC ℞ DET 6-H & 10-H. 4. INDICATED NORMAL ABS SCANTLING IN WAY OF SPECIAL COATED AREAS & REV GEN NOTE #3. 5. RES #6 RELEASED BY REV A ITEM 3. 6. RES #5 RELEASED. 7. DK PLTG & FRMG BET FR 67-70 OUTBD OF LONG'L BHD 37'-11" OFF ℄ REVISED TO SUIT ROLL STAB TANK. 8. LONG'L #6 BET FRS 65-68 RERUN TO SUIT REV INDIC OF COFF BHDS. SOURCE: ITEMS 1 & 4 TO SUIT ABS COMMENTS 9/15/69 ITEMS 2, 3 & 5-8 TO SUIT DES DEV.	11/13/9	H	–	–	LTR 2/6/70	DTD
7-10 3', 21' 8', 3', 20'	C	1. CHGD. PLTG THK & RELOC FRMG BET FR 70-82 TO SUIT REVISED MACHY ARR OF DK OPENINGS. RES #1 RELEASED. (SE) 2 OUTBD ℞ WEIGHTS IN WAY OF UNIT 902 & 903 (FRS 106-108) CHGD FROM 17.85# TO 22.95# TO SUIT ABS COMMENTS. 3. RES #3 & 4 DELETED. 4. INDICATION OF ENGR'S PLATF HOIST OPNG, FR 81 TO 82, CORRECTED. SOURCE: ITEMS 1, 3 & 4 - DES DEV ITEM 2 - ABS LTR 4-3-70	4/8/70	MK	–	–	LTR 2/6/70	DATED

PRINT DISTRIBUTION

REVISION TO	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
		8/25/9	11/13/9		30212	A	8-26-9	800		
LYKES							✓	820	5	
MA (WASH)					DESIGN ONLY		✓	826	12	
MA (YARD)								829		
JJ HENRY (HOME)					30212	B	11-20-9	830		
JJ HENRY (YARD)								841		
ABS								842		
USCG								843		
USPHS								844		
								899		
							✓	LIB	5	
							Lord	820	1	
							Liaison	LYKE	1	
871		6	6				LeBlanc	858	1	
872		6	6					865	1	
873		2	2					822	2	
874		1	1				[illegible]	821	1	
875							[illegible]	814	1	
876		3	3				[illegible]	824	1	
899 ECON		1	1							
TPS 866		1	1							
TOTAL NRO'S FS		20	20							
TOTAL NRO'S HS										
TOTAL Z								TOTAL	31	

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

RESERVATIONS

C1 ~~1. ACCESS, VENT CUTS ETC, IN MACHY CASING FR 70-82 P/S PENDING DESIGN DEVELOP & ARR. OF MACHY SPACE~~
~~2. DRAINWELL OPNGS RESERVED PENDING PIPING DEV.~~
D2 ~~3. AREA IN WAY OF STERN GATES INCLUDING RECESSES FOR SHEAVES, MAKE UP RAMP & OTHER BARGE HDLG EQUIPT PENDING DEVELOPMENT OF BARGE HANDLING SYSTEM.~~
~~4. AREA ABT FR 106 & IN WAY OF STEERING GEAR & RUDDER STOCK SHIPPING OPENING PENDING STRUCTURAL & MECH DESIGN DEVELOPMENT.~~
B6 ~~5. LOCATION OF QAWT ESC.S PENDING STUDY FOR IMPROVING MEANS OF EGRESS FROM STEERING GEAR RM.~~
A3 ~~6. LONG. FRAMING AFT FR 99 PENDING DEVELOPMENT BY DESIGN ENGINEERING.~~

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. THE DK PLTG & SCANTLINGS THICKNESSES SHOWN ON THIS DRAWING TAKE INTO ACCOUNT THE ALLOWABLE REDUCTION FOR SPECIAL COATINGS AND ARE IN ACCORDANCE WITH THE REDUCTIONS SHOWN ON DRAWING NO. 5382-511-3, ALT "A" (DK SCANTLINGS) WHERE THIS REDUCTION APPLIES, THE SCANTLINGS IN BKTS ARE THE NORMAL ABS SCANTLINGS e.g. 28.05# (30.6)
4. ALL MAT'L TO BE M.S. EXCEPT WHERE NOTED OTHERWISE. ALL STEEL TO BE IN ACCORDANCE WITH A.B.S. SPEC.

MA HULL NO	Q DIV HULL NO	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

MICROFILMED
C 5-10-73

SEA BARGE CLIPPER

NO	TITLE	Q DIV DWG NO	M A DWG NO
7	TRANSV BHD 82	30331-11x12	241-511-18-14
6	LONG'L BHD 37'-11" OFF ℄	30332-01x03	241-511-18-20
5	TRANSV WEB FR 71-73	30321-30x11	241-511-18-01
4	LOWER DK PLTG - FWD	30343-02x01	241-511-18-21
3	SHELL EXP AFT 64 BEL LOWER DECK	30351-25x02	241-511-01-01
2	STD WELDING DETS	30313-01x02	241-529-06-01
1	STD STRUCTURAL DETS	30313-01x01	241-511-17-01

REFERENCES

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC
O	No. 7	3	HULL 18, 19 & 20

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC
DESIGN 35-L-M3

Q DIV DWG NO
30343-02x02

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY, MASS 02169

DFTMN WFL/RD
DSGNP
SUPV
ENGR JTM / H.K.

LOWER DECK PLTG AFT SCANTLINGS

APPROVED DATE 4/5/69
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO	MARITIME ADMINISTRATION NO.	REV
25316	241-511-18-22	C

SCALE: 1/4" = 1'-0" SHEET 1 OF 1

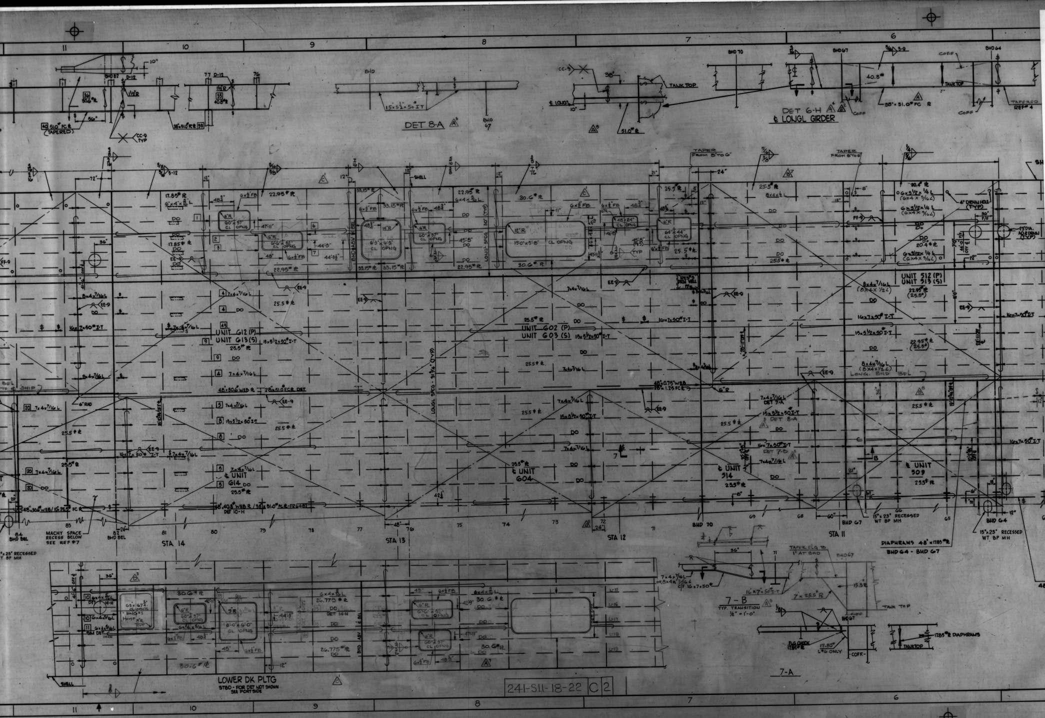
APPROVAL LTR DATED
ABS 9/15/69
USCG 1/30/70
USPHS [illegible]

35

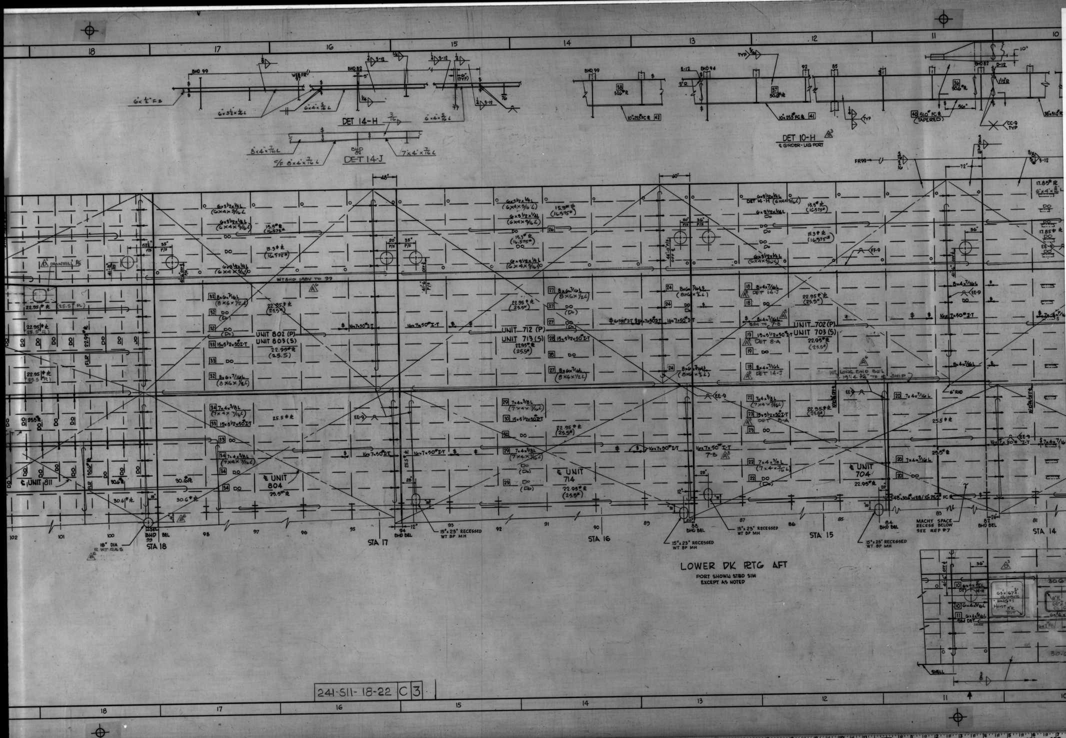
MA DWG NO 241-511-18-22
LOWER DK PLTG AFT
Q DIV DWG NO 30343-02x02

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-S11-18-22 GD NO. 30343-02x02 FRAME 1 ② 3 4



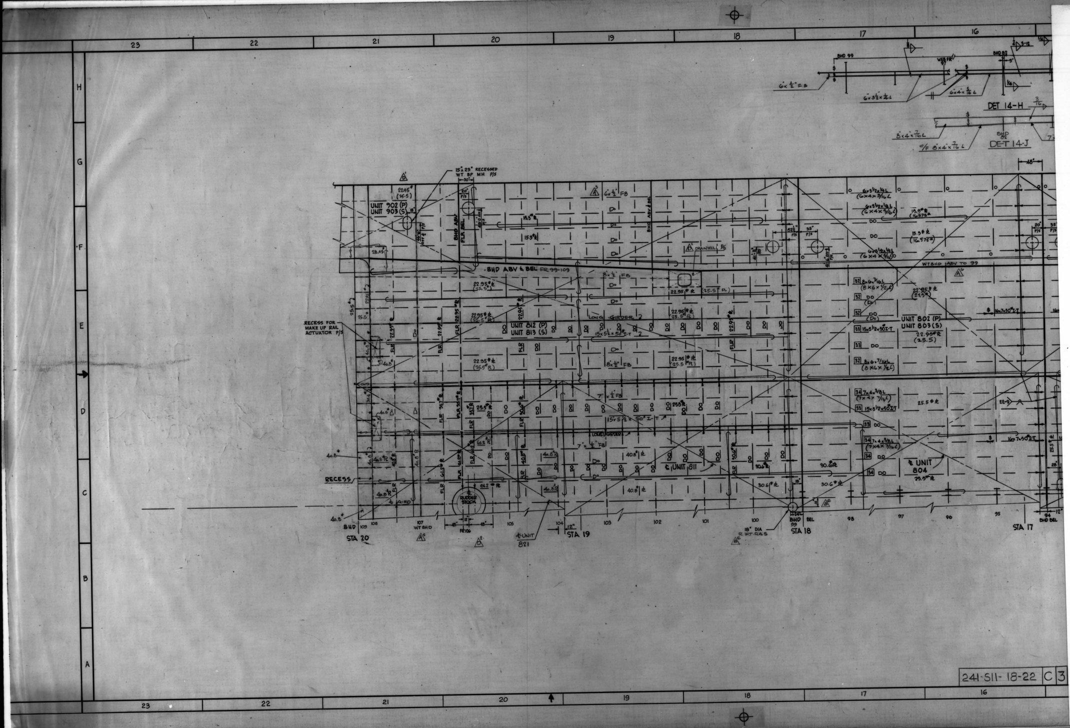
DET 8-A
DET 6-H
℄ LONGL GIRDER
TANK TOP
BHD 70
BHD 67
BHD 64
UNIT 612 (P)
UNIT 613 (S)
UNIT 602 (P)
UNIT 603 (S)
UNIT 512 (P)
UNIT 513 (S)
℄ UNIT 614
℄ UNIT 604
℄ UNIT 514
℄ UNIT 509
LONG. BHD BEL
MACHY SPACE RECESS BELOW SEE REF #7
STA 14
STA 13
STA 12
STA 11
DIAPHRAMS 48" x 17.85# ℞ BHD 64 - BHD 67
15"x23" RECESSED WT. BP MH
7-B
TYP. TRANSITION ½" = 1'-0"
7-A
LOWER DK PLTG
STBD - FOR DET NOT SHOWN SEE PORT SIDE
SHELL
241-S11-18-22 C 2
11
10
9
8
7
6


LOWER DK PLTG AFT
PORT SHOWN STBD SIM EXCEPT AS NOTED
DET 14-H
DET 14-J
DET 10-H
℄ GIRDER - LKG PORT
UNIT 802 (P)
UNIT 803 (S)
UNIT 712 (P)
UNIT 713 (S)
UNIT 702 (P)
UNIT 703 (S)
℄ UNIT 804
℄ UNIT 714
℄ UNIT 704
℄ UNIT 811
DRAINWELL
WT BHD ABV TO 99
15" x 23" RECESSED WT BP MH
18" DIA WT-RAS
MACHY SPACE RECESS BELOW SEE REF #7
BHD 99
BHD BEL
STA 18
STA 17
STA 16
STA 15
STA 14
SHELL
241-511-18-22 C 3
18
17
16
15
14
13
12
11
10

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-511-18-22 GD NO. 30343-02x02 FRAME 1 2 ③ 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

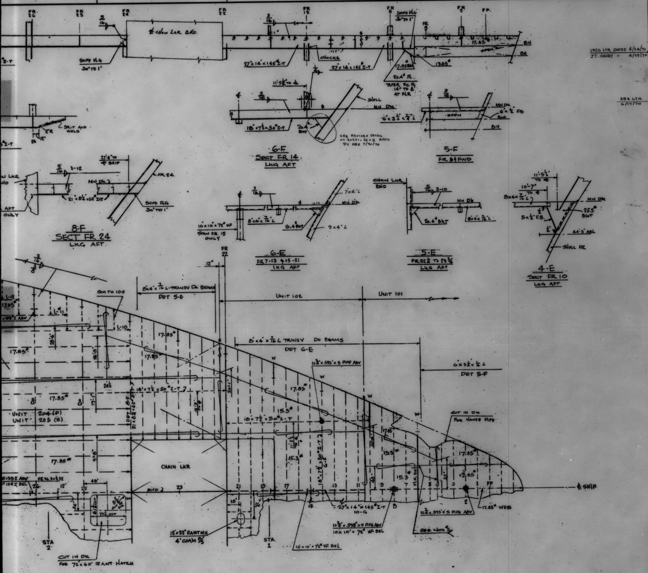
MA NO. 241-S11-18-22 GD NO. 30343-02x02 FRAME 1 2 3 ④


23
22
21
20
19
18
17
16
H
G
F
E
D
C
B
A
BHD 99
BHD 82
6 x ½" FB
6 x 3½ x ⅜ L
6 x 4 x 5/16 L
DET 14-H
8 x 4 x 7/16 L
C/F 8 x 4 x 7/16 L
DET 14-J
15" x 23" RECESSED WT BF MH P/S
UNIT 902 (P)
UNIT 903 (S)
BHD ABV
FLR BEL
BHD ABV & BEL FR 99-109
DRAINWELL P/S
WT BHD ABV TO 99
LONG GIRDER 2
UNIT 812 (P)
UNIT 813 (S)
15 x 5½ x 50# I-T
UNIT 802 (P)
UNIT 803 (S)
RECESS FOR MAKE UP RAIL ACTUATOR P/S
LONG GIRDER 1
℄ UNIT 811
℄ UNIT 804
RECESS
RUDDER STOCK
℄ GIRD
22.95# ℞
25.5# ℞
40.8# ℞
30.6# ℞
61.2# ℞
BHD 109
108
107 WT BHD
106
105
104
103
102
101
100
BHD 99 BEL
98
97
96
95
94 BHD BEL
STA 20
FR 106
℄ UNIT 821
STA 19
18" DIA R WT RAS
STA 18
STA 17

241-S11-18-22 C 3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-23 GD NO. 30343-03X1 FRAME ① 2 3 4

30343-03X1


FR 26
FR 25
FR 24
FR 22
FR 15
FR 8
FR 2
FP.
℄ CHAIN LKR BHD.
SNIPE FLG 30" TO 1"
27" x 14" x 145# I-T
CHOCKS
27" x 14" x 145# I-T
SNIPE FLG 3" TO 1"
17.85#
20.4# FL
TAPER FC FL 14" TO 8" AT FLR
USCG LTR DATED 4/24/70
J.J. HENRY " 4/29/70
ABS LTR 6/17/70
SHELL
MN DK
18" x 7½" x 50# I-T
26.4# BKT
SEE REVISED DETAIL ON 30331-30-3 APPD BY ABS 7/30/70
6-F
SECT FR 14
LKG AFT
6" x 3½" x ¼" L
OPEN
BH
5-F
FR 5 & FWD
MN DK
6" x 3½" FB
SPLIT AND WELD
8-F
SECT FR 24
LKG AFT
27' 4" TO ℄ SHIP
3-12
21" x 8½" x 68# I-T
SNIPE FLG 30" TO 1"
CHAIN LKR BHD
AFT ONLY
10" x 10" x 72# WF
STAN FR 15 ONLY
8" x 4" x 7/16" L
20.4# BKT
7" x 4" L
9 x 4" L
6-E
FR 7-13 & 15-21
LKG AFT
3-10
20.4# BKT
6" x 4" x 7/16" L
5-E
FR 22½ TO 23¾
LKG AFT
11'-5½"
10'-7"
8 x 4 x 7/16" L
5 x ½" F.B.
25.5# BKT
44'-5" ABL
SHELL FR
4-E
SECT FR 10
LKG AFT
8" x 4" x 7/16" L - TRANSV DK BEAMS
DET 5-E
SIM TO 10-F
UNIT 102
UNIT 101
L-10
8" x 4" x 7/16" L TRANSV DK BEAMS
DET 6-E
6" x 3½" x ¼" L
DET 5-F
10½" x .593" x S PIPE ABV
18" x 7½" x 50# I-T
15.3#
17.85#
W
UNIT 204 (P)
UNIT 205 (S)
CUT IN DK FOR HAWSE PIPE
CHAIN LKR
BHD 23
STA 2
STA 1
CUT IN DK FOR 72" x 60" RAWT HATCH
15" x 23" RAWTMH 4" COAM P/S
27" x 14" x 145# I-T 10-G
10½" x .593" x S PIPE ABV
10 x 10" x 72# WF BEL
17.85# WEB
SEE NOTE 6
℄ SHIP
FP

GENERAL NOTES

1. FOR STRUCT DETS & ADDITIONAL NOTES SEE REF #1
2. FOR WELDING DETS & ADDITIONAL NOTES SEE REF #2
3. THE DK PLTG & SCANTLINGS THICKNESSES SHOWN ON THIS DRAWING TAKE INTO ACCOUNT THE ALLOWABLE REDUCTION FOR SPECIAL COATINGS AND ARE IN ACCORDANCE WITH THE REDUCTIONS SHOWN ON DRAWING NO 5382-511-3, ALT "C" (DK SCANTLINGS) WHERE THIS REDUCTION APPLIES, THE SCANTLINGS IN PARENTHESIS ARE NORMAL ABS SIZES.
4. BUTT & SEAM WELDS ARE TO BE IN ACCORDANCE WITH APPROVED FULL PENETRATION BUTT WELDS AS SHOWN ON REF #2 EXCEPT AS NOTED MANUFACTURING MAY EXERCIZE THE OPTION TO EDGE PREP EITHER SIDE OF PLATE.
5. ALL MATERIAL TO BE M.S EXCEPT WHERE NOTED OTHERWISE. ALL STEEL TO BE IN ACCORDANCE WITH ABS SPEC.
6. DK SCANTLING OUTBD OF 37'-11" BHD FR 34-46 AND FR 52-64 DESIGNED TO A HYDROSTATIC HEAD OF 4.25' ABV MAIN DK.

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. DRWG APPROVED FOR OWNERS BY J.J. HENRY LTR 5589/511/AHS-68-70 DATED FEB 17, 1970.						2/17/70
	B	1. TRANSV WEB [illegible] BET FR 24 & 33 CHG'D FROM (24 x 9 x 94# I-T) TO 21" x 8½" x 68# I-T. 2. LONG. GIRD. BET FR 22 & 25 16'-9" OFF ℄ P/S CHG'D FROM (15 x 3⅜" x 50# C-C) TO 18 x 7½ x 50# I-T. 3. LONG. GIRD FR 8 TO 22, 11'-5½ OFF ℄ P/S CHG'D FROM (15 x 3¾" x 50# C/C) TO 18 x 7½ x 50# I-T. 4. GIRD 9-F FWD FR 34 RELOCATED FROM 27'-4" OFF ℄ TO 29'-11¾" OFF ℄ & CHG'D FROM (24 x 9 x 94# I-T) TO 21 x 8½ x 68# I-T. 5. ℄ GIRD 10-G FWD FR 34 CHG'D FROM (24 x 9 x 94# I-T) TO 21" x 8½ x 68# I-T. 6. STAN @ ℄ & 29'-11¾" OFF ℄ INDICATED @ FR 26, 30 & 32 P/S. FOR CONT. SEE PANEL #3					LTR 4/29/70	
	B (CONT)	7. STAN @ ℄ SHIP & 31'-7" OFF ℄ P/S @ BHD 28 INDICATED. 8. TRANSV F.B. FRAMING OUTBD OF L #10 BET FRS 24 & 28 ADDED IN ACCORD WITH 10-F TO SUIT LONG'L ENDINGS 9. PLATING SEAM BET FR 24 & 28 6' OFF ℄ STBD CHG'D TO 12" OFF ℄ STBD. 10. STAN @ 11'-5½" OFF ℄ FR 15 RELOCATED TO FR 14 AND TRANSV @ FR 15 CHG'D FROM (9 x 4 x ⅝" L) TO 8 x 4 x 7/16" L 11. FLR @ FR 5 RELOCATED TO FR 6 AND P 6 x 3½ x ¼" L DK BEAM ADDED AT FR #5. 12. TRANSV F.B. FRAMING OUTBD OF L #14 BET FRS 29 & 33 ADDED IN ACCORD WITH 10-F TO SUIT LONG'L ENDINGS. 13. HATCHWAY FWD FR 28 (P) RELOCATED FROM 21" TO 24" & HATCHWAY AFT FR 28 (S) RELOCATED FROM 7'-5" OFF ℄ TO 4'-3" OFF ℄ TO SUIT ARRANGEMENT. 14. DRAINWELL INBD OF LONG'L BHD BET FR 34 & 35 RELOCATED TO OUTBD OF L-#13 BET FRS 28 & 29 TO SUIT CONF REPORT 320A/51/SM-15/DP #C02-072. DATED 2/70. 15. RESERVATION #1 RELEASED IN ACCORD WITH ABV ITEMS. 16. GEN NOTE #6 REVISED TO SUIT ABS LTR DATED 3/11/70 17 ITEM 1 & 2 & 4 THRU 10 ARE IN ACCORD. WITH C.O. #31. 18 ITEM #3 & 11 ARE IN ACCORD WITH C.O. #37.						
	C	1. LONG'L SEAM BET FRS 28 & 34 CHG'D FROM 6" OFF ℄ (S) TO 12". 2 DRAIN WELL OUTBD & AFT OF BHD 28 MODIFIED TO ACCOMODATE GARBAGE STORAGE TANK. FDN. & PIPING FOR SAME. 3. ITEM 17 & 18 OF REV "B" MODIFIED AS SHOWN. 4. TAPER INDICATED FWD FR 34 AT L #4, 5, 9 & 10. AND WELD CHG'D AT DET 11-A. 5. DET 6-E - CLIP ADDED BEL DK INWAY OF SHELL FR. 6. LONG. #10 ADDED TO DET 12-F	AH	9/1/70			24 JUN 70	

RESERVATIONS

~~1. ALL STRUCTURE FWD FR 34 PENDING FURTHER STRUCTURAL ANALYSIS.~~

REVISIONS	O	A	B	C							
TO			4 2 0	6 25 0							
LYKES											
M.A.(WASH)											
M.A.(YARD)			1	1							
J.J.HENRY(YARD)			1	1							
J.J.HENRY(HOME)											
ABS			1	1							
USCG			1	1							
USPHS											
899 MOB			1	1							
2x #871			11	11							
872			6	4							
873											
874			1	1							
875											
876			2	2							
TPS 866			1	1							
865			1								
TOTAL NRO'S FS			29	24							
TOTAL NRO'S HS											
TOTAL RO											

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	B		800		
			820		
			826		
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIBRARY		
			TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G						

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
C 5-11-73

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
4	MANHOLE LIST & DETAILS	30345-17X1	241-516-2-7
3	SCANTLINGS - MAIN DECK AFT	30343-03X02	241-511-18-24
2	STD WELDING DETAILS	30313-01X02	241-529-06-01
1	STD STRUCT DETAILS	30313-01X01	241-511-17-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
B	31		18, 19, 20
B	30		18, 19, 20

Q div DWG NO.
30343-03X1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN A.N.
DSGNR A.N.
SUPV
ENGR RKF / M.K.

-SCANTLINGS-
MAIN DECK
(FWD)

APPROVED DATE 1/8/70
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS 3-11-70
USCG 1-30-70
USPHS Not Req'd

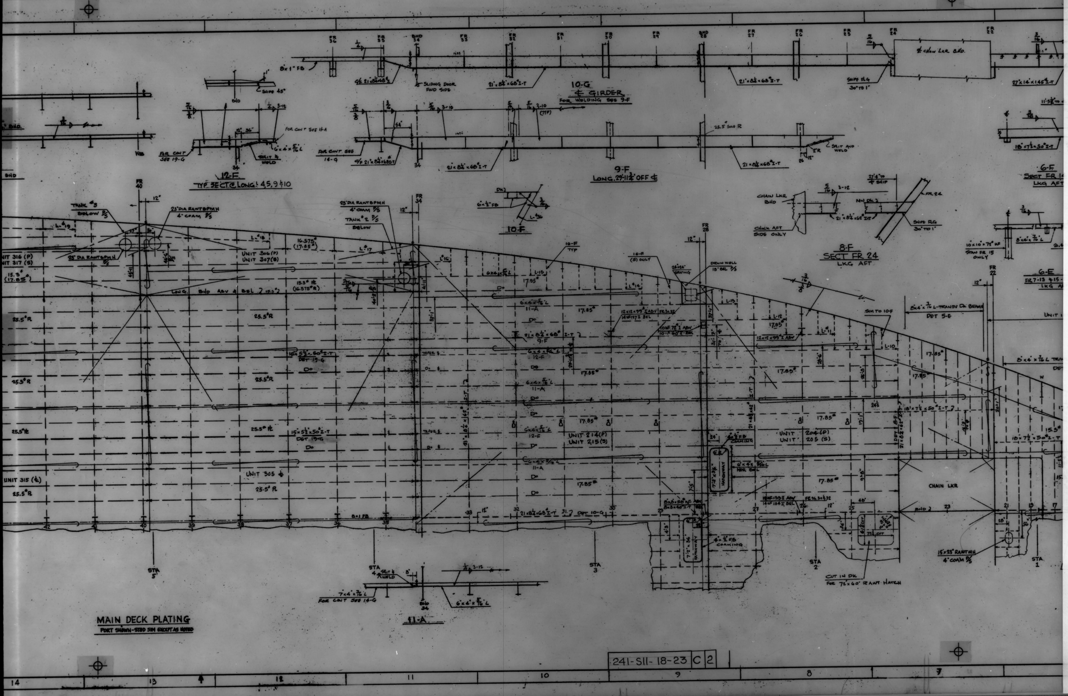
CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-511-18-23	C

SCALE ¼ = 1'-0" SHEET 1 OF 1

AREA =

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO.241-S11-18-23 GD NO. 30343-03×1 FRAME 1 ② 3 4



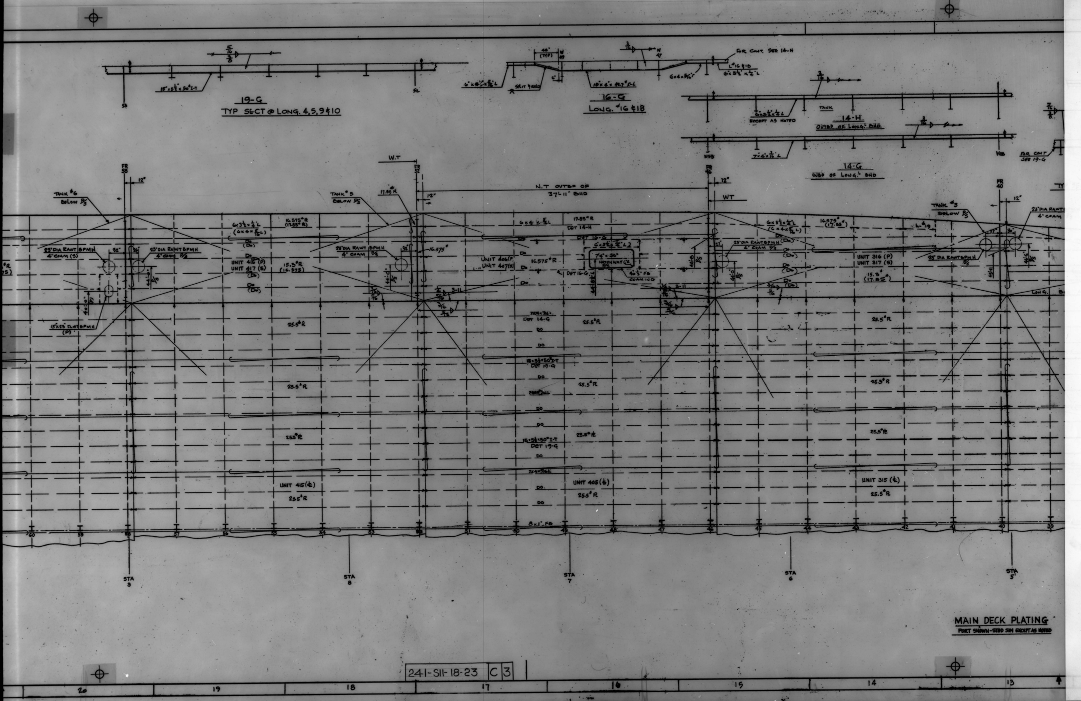
10-G
℄ GIRDER
FOR WELDING SEE 9-F
9-F
LONG. 24'-11¾" OFF ℄
12-F
TYP SECT @ LONG! 45, 9 & 10
10-F
8-F
SECT FR 24
LKG AFT
6-F
SECT FR 14
LKG AFT
6-E
11-A
CHAIN LKR
UNIT 316 (P)
UNIT 317 (S)
UNIT 306 (P)
UNIT 307 (S)
UNIT 214 (P)
UNIT 215 (S)
UNIT 204 (P)
UNIT 205 (S)
UNIT 315 (℄)
UNIT 305 ℄
25.5# R
17.85#
STA 5
STA 4
STA 3
STA 2
STA 1
CUT IN DK
FOR 72"x60" RAWT HATCH
15"x23" RAWTMH
4" COAM P/S
14
13
12
11
10
9
8
7

MAIN DECK PLATING

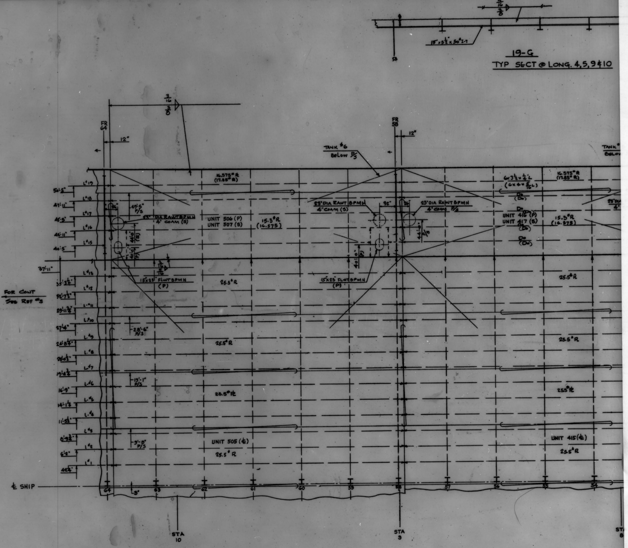
PORT SHOWN - STBD SIM EXCEPT AS NOTED

241-S11-18-23 C 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-23 GD NO. 30343-03×1 FRAME 1 2 ③ 4

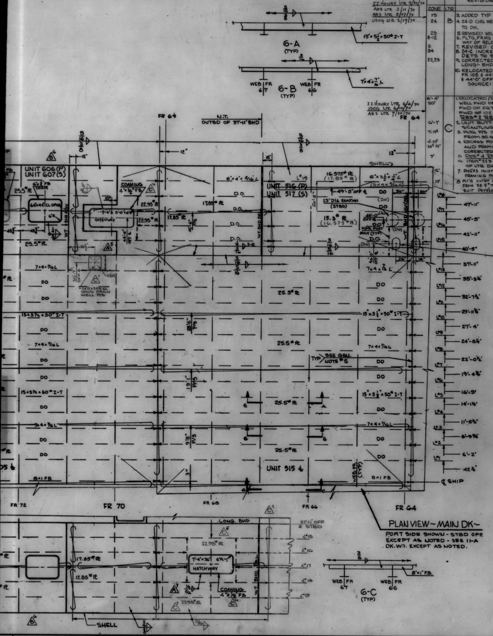

19-G
TYP SECT @ LONG. 4,5,9 & 10
15" x 5½" x 50# I-T
16-G
LONG. #16 & 18
40" (TYP)
6" x 4" x 5/16" L
SPLIT 4 WELD
10" x 4" x 11.7# F-L
6 x 4 x 5/16" L
FOR CONT. SEE 14-H
L# 16 & 18
6" x 3½" x ¼" L
14-H
OUTBD OF LONG.L BHD
TANK
6 x 3½" x ¼" L
EXCEPT AS NOTED
14-G
INBD OF LONG.L BHD
7" x 4" x 3/16" L
WEB
FOR CONT SEE 19-G
FR 58
FR 52
FR 46
FR 40
W.T
WT
12"
N.T OUTBD OF 37L 11" BHD
TANK #6 BELOW P/S
TANK #5 BELOW P/S
TANK #3 BELOW P/S
17.85# R
16.575# R (17.85# R)
6 x 3½ x ¼" L (6 x 4 x 5/16 L)
23" DIA RAWT BPMH 4" COAM (S)
23" DIA RAWT BPMH 4" COAM P/S
15" x 23" FLWT BPMH (P)
UNIT 416 (P)
UNIT 417 (S)
UNIT 406 (P)
UNIT 407 (S)
UNIT 316 (P)
UNIT 317 (S)
UNIT 415 (℄)
UNIT 405 (℄)
UNIT 315 (℄)
15.3# R (16.575)
15.3# (17.85#)
16.575#
16.575# R
6 x 4 x 5/16 L
17.85# R
DET 14-H
DET 16-G
6 x 3½ x ¼ L
7'6" x 36" HATCHWAY C/L P/S
4 x ½ FB COAMING
DO
25.5# R
7" x 4" x 3/16" L DET 14-G
15 x 5½ x 50# I-T DET 19-G
8 x 1" FB
3-11
L-#19
LONG.
60
59
58
57
56
55
54
53
52
51
50
49
48
47
46
45
44
43
42
41
40
39
STA 9
STA 8
STA 7
STA 6
STA 5
MAIN DECK PLATING
PORT SHOWN-STBD SIM EXCEPT AS NOTED
241-S11-18-23
C
3
20
19
18
17
16
15
14
13

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-23 GD NO. 30343-03×1 FRAME 1 2 3 ④


5/16
3/8
15"×5½"×50# I-T
58
19-G
TYP SECT @ LONG. 4,5,9 & 10
3/16
3/8
FR 64
12"
FR 58
12"
TANK #6 BELOW P/S
TANK
BELOW
16.575# R (17.85# R)
L#19
L#18
L#17
L#16
L#15
L#13
L#12
L#11
L#10
L#9
L#8
L#7
L#6
L#5
L#4
L#3
L#2
L#1
50'-5"
47'-11"
45'-5"
42'-11"
40'-5"
37'-11"
35'-3¼"
32'-7½"
29'-11¾"
27'-4"
24'-8¼"
22'-0½"
19'-4¾"
16'-9"
14'-1¼"
11'-5½"
8'-9¾"
6'-2"
4'2¼"
FOR CONT SEE REF #3
26"
49'-5" P/S
23" DIA RAWTBPMH 4" COAM (S)
44'-0" (S)
40'-0" (P)
3/16
5/16
15"x23" FLWTBPMH (P)
UNIT 506 (P)
UNIT 507 (S)
15.3# R (16.575)
25.5# R
28'-6" P/S
19'-1" P/S
9'-8" P/S
UNIT 505 (℄)
23" DIA RAWT BPMH 4" COAM (S)
32"
26"
23" DIA RAWTBPMH 4" COAM P/S
40'-0" (P)
15"x23" FLWTBPMH (P)
6×3½×¼" L (6×4×5/16 L)
Do (Do)
UNIT 416 (P)
UNIT 417 (S)
16.575# R (17.85# R)
15.3# R (16.575)
23" DIA
4"
UNIT 415 (℄)
℄ SHIP
64
3"
63
62
61
60
59
58
57
56
55
54
STA 10
STA 9
STA 8

241-511-18-23	C	4

H
G
F
E
D
C
B
A
23
22
21
20
19
18


J.J. HENRY LTR 2/20/70
ABS LTR 3/11/70
ABS LTR 2/27/70
USCG LTR 2/19/70
6-A
(TYP)
15"x5½"x50# I-T
6-B
(TYP)
7"x4"x7/16"L
WEB FR 67
WEB FR 66
J.J. HENRY LTR 6/4/70
USCG LTR 6/10/70
ABS LTR 7/20/70
FR 69
N.T.
OUTBD OF 37'-11" BHD
FR 64
SHELL
UNIT 606 (P)
UNIT 607 (S)
UNIT 516 (P)
UNIT 517 (S)
COAMING
4"x½" FB
HATCHWAY
23" DIA RANTHM (STBD)
D.O.
25.5#R
22.95#R
17.85#R
16.575#R
(17.85#R)
15.3#R
(16.575#R)
47'-11"
45'-5"
42'-11"
40'-5"
37'-11"
35'-3¼"
32'-7½"
29'-11¾"
27'-4"
24'-8¼"
22'-0½"
19'-4¾"
16'-9"
14'-1¼"
11'-5½"
8'-9¾"
6'-2"
4'2¼"
15"x23" FLWTBPMH
PORT ONLY
7x4x7/16L
15x5½x50# I-T
TYP
SEE GEN NOTE #5
UNIT 515
8x1 FB
℄ SHIP
FR 72
FR 70
FR 68
FR 66
FR 64
PLAN VIEW~MAIN DK~
PORT SIDE SHOWN - STBD OPP.
EXCEPT AS NOTED - SEE 11-A
DK.WT. EXCEPT AS NOTED.
LONG. BHD
37'-11" OFF ℄ STBD
7'-4"x36" CR
HATCHWAY
COAMING
4"x½" FB
SHELL
6-C
(TYP)
8"x1" FB.
WEB FR 67
WEB FR 66

ZONE	LTR	REVISIONS	Q DIV DATE	Q DIV APPD	MA DATE	MA APPD	OWNER DATE	OWNER APPD
19 24 23 8-12 3 24 22,23	B	3. ADDED TYP DET 19A 4. 24-D CHG WELD OF LONG'L TO DK. 5. REVISED WELD AT HATCHWAY BET FR 107 & 108. 6. PLTG, FRMG & WELDING BET FR 70 TO 82 REVISED IN WAY OF RELOCATED DK OPENINGS. RES #1 RELEASED TO SUIT. 7. REVISED GEN NOTE #3 & ADDED GEN NOTE #6. 8. 24-C INCREASED THK OF CLIP & REVISED WELD DETS TO SUIT. 9. CORRECTED WELD OF DK PLTG AFT FR 106 TO LONG'L BHD. 10. RELOCATED 23" DIA ACCESS OPENING TO 48" AFT FR 105 & 44'-0" OFF ℄ P/S (WAS 29" FWD FR 106 & 44'-0" OFF ℄). SOURCE: ITEM 3,4 & 5 TO SUIT JJ HENRY LTR 10/27/69 ITEM 1,2,6 & 10 DES DEV ITEM 7,8 & 9 TO SUIT ABS COMMENTS						
8'-4' 20' 6'-7' 7',19² 4',23² 24³ 22' 7' 12' 23'	C	1. RELOCATED & REVISED DRAIN WELL FWD OF FR 70 TO 31½" FWD OF FR 71. DRAIN WELL FWD OF 102 REVISED ALL TO SUIT STRAINER PLT. ~~RES #2 RELEASED.~~ 2. UNIT BUTT (STBD) 18" FWD FR 67 ADDED & PLT SCANTLING INCREASED FROM 17.85# TO 22.95#. 3. PLTG P/S 12" FWD OF 73 & 12" AFT OF 75 INCREASED FROM 30.6# TO 33.15#. 4. RECESS FOR MAKE UP RAIL SYSTEM FWD FR 108 AND FRAMING MODIFIED. DET. 22A, 23A, 24A, 24-C & 24-D CORRECTED TO AGREE. RES #3 RELEASED. 5. RES #4 RELEASED. 6. ITEM #2 & 3 ARE IN ACCORDANCE WITH ABS REQUEST OF LTR DATED 3/11/70. 7. ENG'RS HOIST TRUNK FWD FR 82 MN DK (S) CUT IN DK FRAMING FOR SAME MODIFIED TO SUIT ARRG'T 8. PLT'G OUTBD OF LONG'L BHD AFT OF 30" FWD FR 106 CHG'D FROM 25.5# TO 35.7# PL & INSERT PLT SHOWN TO SUIT DEVELOPEMENT.	JFB 5/5/70		—	—	LTR 6/4	/70

FOR CONT SEE PANEL #2

ZONE	LTR	REVISIONS	Q DIV DATE	Q DIV APPD	MA DATE	MA APPD	OWNER DATE	OWNER APPD
4' 23' 23³ 24' 8' 7',20' 4',7' 21',22'	A	1. DWG. APPROVED J.J. HENRY. LTR 5589/511/AHS-274-69 DATED 8/18/69. 2. REF #5, 6 & 7 ADDED. 3. WELDING OF COAMING AT HATCHWAY BET FR 107 & 108 OUTBD OF LONG BHD PORT ADDED. 4. RECESS FOR DK SHEAVES BET FR 107 & 108 INBD OF LONG. BHD UPDATED & RELOCATED DET 23-A & 24-A ADDED DET 24-B & 24-D MODIFIED. RES #3 INDICATED ON DWG. 5. HATCHWAY OFF ℄ DIMENSION 44'-8½" CHG'D TO 44'-2" TO AGREE WITH ADDED REF #6. 6. RES #2 ADDED TO DRAIN WELLS BET FR 69-70 & 101 & 102. 7. HATCHWAY FR 68 & 44'-8½" OFF ℄ STBD & RES #4 ADDED. 8. ℄ LONG. GIRDER. FR 105 TO 107 AND DET 22-A ADDED TO SUIT DESIGN REQUIREMENTS. 9. ITEMS 2 THRU 7 ARE IN ACCORD WITH ITEM #1.	AH 9/16/69		—	—	LTR 8/18	DATED /69
USCG APPL DTD 2/19/70 ABS APPL DTD 3/11/70	B	1. CORRECTED PLT BUTTS & SEAMS BET FR 99-108 OUT BD OF L #10 TO LONGL BHD TO SUIT DEVELOPMENT 2 ADD SEAM 45'-4" OFF ℄ BET 12" AFT FR 87 TO 18" AFT FR 88 & BET 12" AFT FR 81 TO 18" AFT 82	SE 12/1/69		—	—	LTR 2/20	DTD /70

(CONT. PANEL 4)

ZONE	LTR	REVISIONS	Q DIV DATE	Q DIV APPD	MA DATE	MA APPD	OWNER DATE	OWNER APPD
23',4' 7²,11'	C	BKT OUTBD OF LONG'L BHD 23" AFT FR 108 INDICATED PORT & STBD TO SUIT ABS LTR DATED 7/20/70 HATCHWAY COAM'GS BET FR 77 & 70 (S) FR 70 (P) & FR 68 (S) CORRECTED FROM 6x½" FB TO 4x½" FB.	AH		—	—	LTR 6/4	/70

RESERVATIONS

B6 ~~1 SIZE & LOCATION OF CUTS FOR UPTAKES, VENT, ACCESS ETC AND DECK PLATING THICKNESS IN MACHY CASING FR 70-82 P/S PENDING DES DEV OF MACHY SPACE ARR.~~

C1 ~~2 DRAINWELL OPENINGS RESERVED PENDING PIPING DEV.~~

C4 ~~3 DECK PLATING & FRAMING AFT FR 107 PENDING DEV OF BARGE TRANSPORTER & MAKE UP RAIL SYSTEMS.~~

A7 C5 ~~4. HATCHWAY FR 68 STBD PENDING DEVELOPMENT FOR POSSIBLE LOCATION OF BARGE TRANSPORTER MOTOR GENERATOR RM.~~

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. THE DK PLTG & SCANTLINGS THICKNESSES SHOWN ON THIS DRAWING TAKE INTO ACCOUNT THE ALLOWABLE REDUCTION FOR SPECIAL COATINGS AND ARE IN ACCORDANCE WITH THE REDUCTIONS SHOWN ON DRAWING NO. 5382-511-3, ALT "A" (DK SCANTLINGS) WHERE THIS REDUCTION APPLIES, THE SCANTLINGS IN BKTS ARE THE NORMAL ABS SCANTLINGS eg 28.05# (30.6#) B7
4. ALL MAT'L TO BE MS EXCEPT WHERE NOTED OTHERWISE, ALL STEEL TO BE IN ACCORDANCE WITH A.B.S. SPEC.
5. BUTT & SEAM WELDS ARE TO IN ACCORDANCE WITH APPROVED FULL PENETRATION BUTT WELDS AS SHOWN ON REF #2, EXCEPT AS NOTED. MANUFACTURING MAY EXERCISE THE OPTION TO EDGE PREP EITHER SIDE OF PLATE.
6. B7 DECK SCANTLINGS OUTBD 37'-11" BHD FR 64-67 P/S & FR 82 TO 36" FWD FR 90 DESIGNED TO A HYDROSTATIC HEAD 4.25' ABV MAIN DK.

PRINT DISTRIBUTION

REVISION TO	O	A	B	C
		9/18/9	1/7/0	5/15/0
LYKES				
MA (WASH)				
MA (YARD)		1	1	1
JJ HENRY (HOME)				
JJ HENRY (YARD)		1	1	1
ABS YD				1
USCG		1	1	1
USPHS				
871		7	7	7
872		6	6	4
873				
874		1	1	1
875				
876		3	3	3
865		1	1	
REED 899 MOB		1	1	1
TPS 866		1	1	1
TOTAL NRO'S FS		23	23	21
TOTAL NRO'S HS				
TOTAL Z				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	9-19-9	800		
30212	B	5-28-[illegible]	P820	5	
			826	12	
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIB	5	
		LEBLANC	858	0	
		Loud	820	1	
		[illegible]	824	1	
		[illegible]	814	1	
			865	1	
		[illegible]	LYRE	1	
			922	2	
		[illegible]	871	1	
			840	1	
			TOTAL	31	

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

MA HULL NO	Q DIV HULL NO	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

MICROFILMED
C 5-70-23

SEA BARGE CLIPPER

NO	TITLE	Q DIV DWG NO	MA DWG NO
8	CANTILEVER SCANTLINGS DKS & BHDS	30343-10x1	241-511-18-33
7	TRANSV WEB FR 71-73 SCANTLINGS	30321-30x11	241-511-18-01
6	C&A & GEN ARRGT MAIN DK	30211-03x4	241-516-1-4
5	MANHOLE LIST & DETAILS	30545-17x1	241-516-2-7
4	MAIN DK SCANTLINGS FWD	30343-02x1	241-511-18-21
3	SHELL EXP AFT 64 ABV LWR DK	30351-25x4	241-511-01-04
2	STD WELDING DETS	30313-01x02	241-529-06-01
1	STD STRUCTURAL DETS	30313-01x01	241-511-17-01

REFERENCES

D1 (ref. 8); A2 (refs. 5–7)

REV	Q DIV CONTR CHG NO	MA CONTR CHG NO	CONTR CHG APPLIC

REV	Q DIV CONTR CHG NO	MA CONTR CHG NO	CONTR CHG APPLIC
0	7	3	HULL 18,19 & 20

MARITIME ADMINISTRATION
DESIGN C8-S-82:
SINGLE SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC
DESIGN B5-L-M3

Q DIV DWG NO 30343-03x2

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY, MASS 02169

DFTMN WEL/FB
DSGNP JJG/JW
SUPV
ENGR /M.K.

MAIN DECK PLTG (AFT)
SCANTLINGS

APPROVED DATE
7/10/69
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO	MARITIME ADMINISTRATION NO.	REV
25316	241-511-18-24	C

SCALE: ¼"=1'-0" SHEET

APPROVAL LTR DATED
ABS 10/24/69
USCG 8/26/69
USPHS Not Reqr

AREA 25 SQ FT

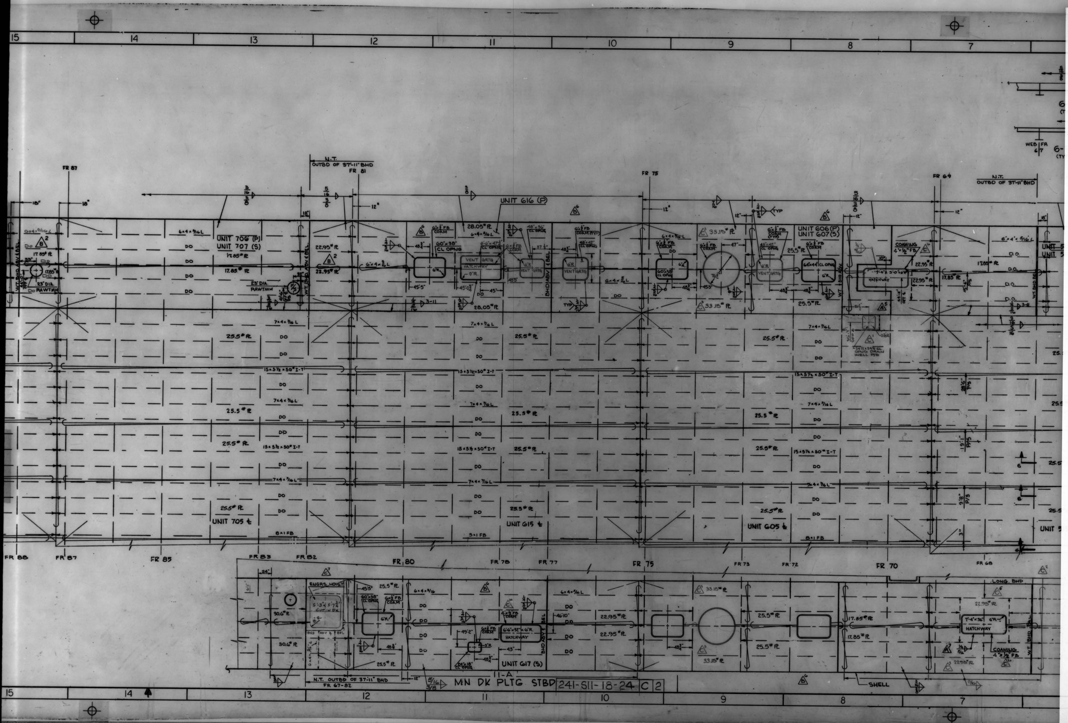
MA DWG NO 241-511-18-24

MAIN DECK PLTG (AFT) SCANTLINGS

DWG NO 30343-03x2

30343-03x2

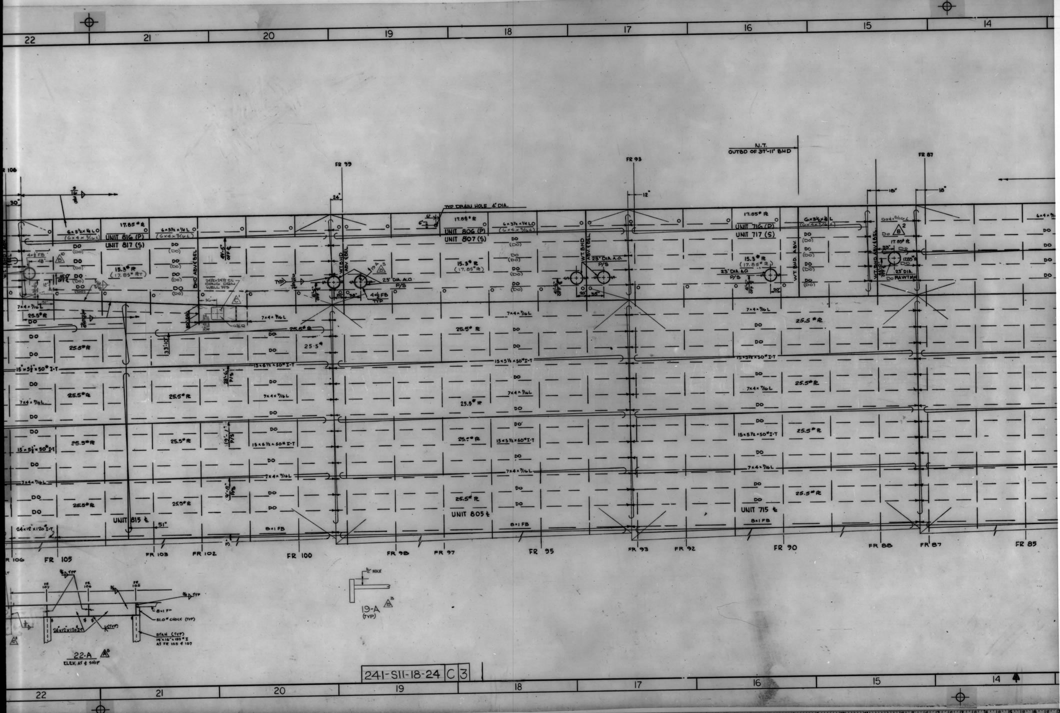
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-511-18-24 GD NO. 30343-03x2 FRAME ① 2 3 4


15
14
13
12
11
10
9
8
7
FR 87
N.T. OUTBD OF 37'-11" BHD
FR 81
FR 75
FR 69
N.T. OUTBD OF 37'-11" BHD
UNIT 616 (P)
UNIT 706 (P)
UNIT 707 (S)
UNIT 606 (P)
UNIT 607 (S)
25" DIA. RAWTMH
VENT GRTG
HATCHWAY
COAMING 4"x½" FB
24½"x24½" CL OPNG DRAIN WELL P/S
15x5½x50# I-T
7x4x5/16 L
25.5# PL
22.95# PL
17.85# PL
33.15# PL
28.05# PL
UNIT 705
UNIT 615
UNIT 605
8x1 FB
WEB FR 67
FR 88
FR 87
FR 85
FR 83
FR 82
FR 80
FR 78
FR 77
FR 75
FR 73
FR 72
FR 70
FR 68
ENGRS HOIST
CUT IN DK
UNIT 617 (S)
LONG. BHD
SHELL
N.T. OUTBD OF 37'-11" BHD FR 67-82
11-A
MN DK PLTG STBD
241-S11-18-24 C 2

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

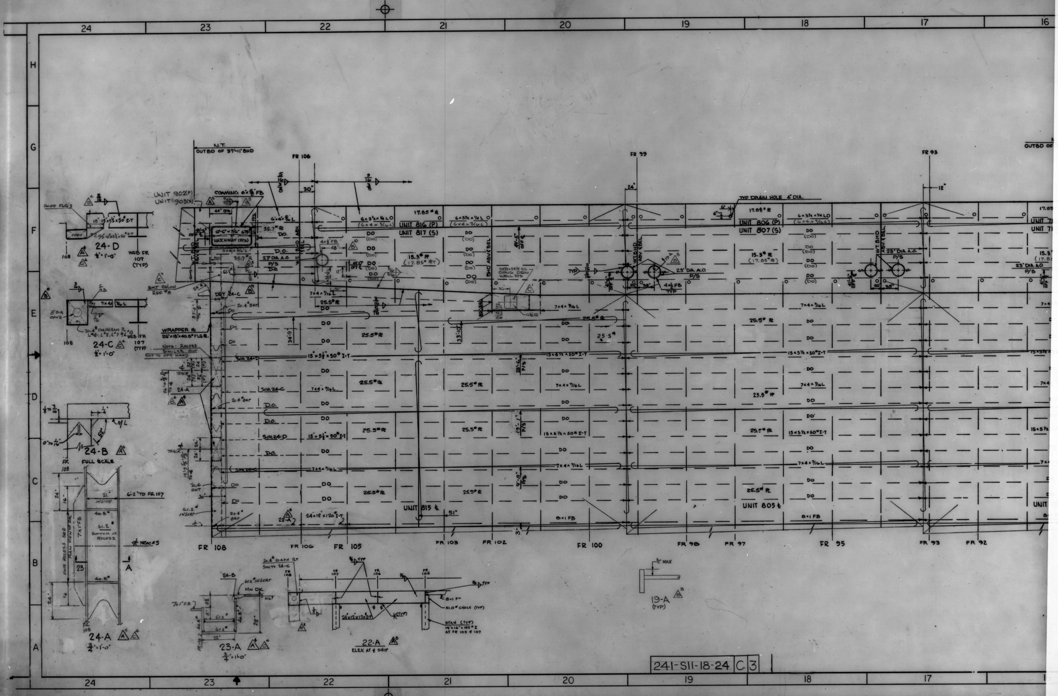
MA NO.241-S11-18-24 GD NO. 30343-03×2 FRAME 1 ② 3 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S11-18-24 GD NO. 30343-03x2 FRAME 1 2 ③ 4


22
21
20
19
18
17
16
15
14
FR 106
FR 99
FR 93
FR 87
N.T.
OUTBD OF 37'-11" BHD
TYP DRAIN HOLE 4" DIA.
24"
12"
18"
30"
17.85# R
6×3½×¼ LO (6×4×5/16 L)
UNIT 816 (P)
UNIT 817 (S)
UNIT 806 (P)
UNIT 807 (S)
UNIT 716 (P)
UNIT 717 (S)
15.3# R (17.85# R)
23" DIA. A.O. P/S
24½×24½ CL CONC DRN WELL P/S
W.T. BHD ABV. EL
RAWTMH
7×4×7/16 L
25.5# R
DO
(DO)
15×5½×50# I-T
24×12×120# I-T
UNIT 815 ℄
UNIT 805 ℄
UNIT 715 ℄
8×1 FB
51"
33'-10"
28'-6" P/S
19'-1" P/S
9'-8" P/S
FR 105
FR 103
FR 102
FR 100
FR 98
FR 97
FR 95
FR 93
FR 92
FR 90
FR 88
FR 87
FR 85
1/8" MAX
19-A (TYP)
22-A
ELEV. AT ℄ SHIP
8×1 F
51.0# CHOCK (TYP)
STAN (TYP) 14×16×103# I AT FR 105 & 107
24×12×120# I
241-S11-18-24 C 3

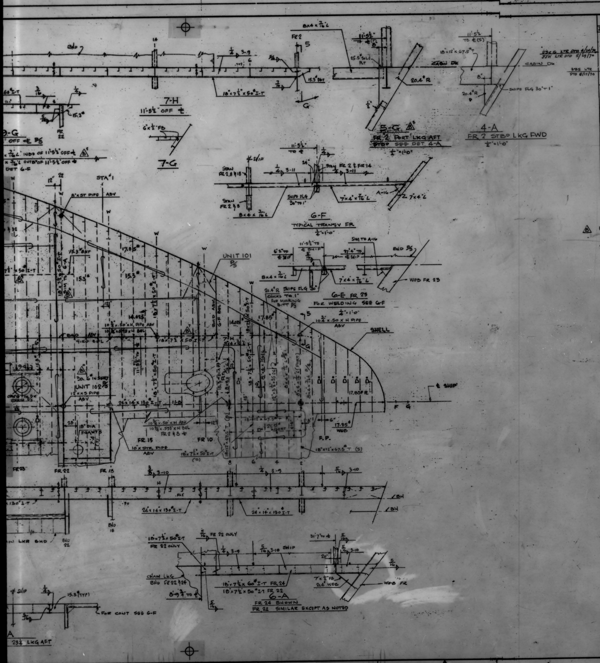
GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-S11-18-24 GD NO. 30343-03x2 FRAME 1 2 3 ④



24
23
22
21
20
19
18
17
16
H
G
F
E
D
C
B
A
N.T.
OUTBD OF 37'-11" BHD
FR 106
FR 99
FR 93
30"
24"
12"
TYP DRAIN HOLE 4" DIA.
UNIT 902(P)
UNIT 903(S)
COAMING 6"x5/8" FB
HATCHWAY (P/S)
17.85# R
6x3½x¼ L
(6x4x5/16 L)
UNIT 816 (P)
UNIT 817 (S)
UNIT 806 (P)
UNIT 807 (S)
35.7# R
DO
D.O.
(DO)
15.3# R
(17.85# RT)
23" DIA. A.O.
P/S
4x½ FB
48"
WT BHD ABV BEL
BHD ABV BEL
24½x24½ CL
OPNG DRN WELL P/S
25.5# R
7x4x7/16 L
15x5½x50# I-T
SIM 24-D
SIM 24-C
20.4# BKT
61.2# INSERT
WRAPPER R
26"x18"x40.8# FLG R.
Note: Recess Similar But Not to Opp Hand
TRACK
UNIT 815 ℄
UNIT 805 ℄
51"
24"x12"x120# I-T
8x1 FB
FR 108
FR 106
FR 105
FR 103
FR 102
FR 100
FR 98
FR 97
FR 95
FR 93
FR 92
SHIPP FLG's
OPEN
15x5½x50# I-T
24-D
½" = 1'-0"
WEB FR 107 (TYP)
8" DIA OPNG
20.4# DIAPHRAM R
24-C
½" = 1'-0"
WEB FR 107 (TYP)
ML
0" to 1/16"
24-B
FULL SCALE
21"
6'-2" TO FR 107
INSIDE
40.8#
61.2# BOTTOM OF RECESS
7x1 FB
FOR RECESS SEE PLAN VIEW OF DK
½ TRACKS
23
A
24-A
¾" = 1'-0"
24-B
61.2# INSERT
MN DK
MLT
7x1 FB
40.8#
61.2#
25"
23-A
¾" = 1'-0"
20.4# DIAPH RT SIM TO 24-C
FR 108
FR 107
FR 106
FR 105
3/8 TYP
24"x12"x120# I-T
8x1 F
51.0# CHOCK (TYP)
STAN (TYP)
14"x16"x193# I AT FR 105 & 107
22-A
ELEV. AT ℄ SHIP
½" MAX
19-A (TYP)
241-S11-18-24 C 3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S11-18-25 GD NO.30343-04×1 FRAME ① 2 3 4



USCG LTR DTD 4/24/70
JJH LTR DTD 5/29/70

ABS LTR DTD 6/17/70

ZONE	LTR	REVISIONS	Q DIV DATE	Q DIV APPD	M A DATE	M A APPD	OWNER DATE	OWNER APPD
	A	1. DRWG APPROVED FOR OWNERS BY J. J. HENRY LTR 5589/S11/AHS-71-70 DATED 2/17/70	3/[illegible]/70	[illegible]	—	—	LTR 2/17/70	
4'10², 12², 9², 11', 10',12', 8', 8', 7', 5'	B	1. GIRD 27'-4" OFF ℄ AFT FR 24 RELOC. TO 21'-11⅜ OFF ℄ & SIZE INCREASED. 10-B CORRECTED & RES #1 RELEASED. 2. STANS INDICATED AT ℄ & 31'-7" OFF ℄ ABV & BEL CABIN DK AT WEB FRS 24, 26, 28, 30 & 32. 3. DETAIL 11-A @ LONG. #13 BET FRS 28 & 30 CHANGED FROM 18×4×42.7# C-L TO 21×8¼×62#I-T. 4. TRANSV GIRDS FR 25 TO 33 CHG'D FROM 18×7½×60#I-T TO 21×8¼×62#I-T. 5. TRANSV DK BEAMS FWD FR 24 INBD OF 11'-5½ CHG'D FROM 8×4×7/16 L TO 8×4×7/16 L & OUTBD OF 11'-5½ CHG'D FROM 8×4×7/16 L TO 7×4×7/16 L. DET 6-E & 6-F CORRECTED. 6. TRANSV WEB FR @ 2, 6, 14 & 22 CHG'D FROM 18×7½×60#I-T TO 18×7½×50#I-T. THE 18×7½×60#I-T AT WEB FR 2, 10, & 18 DELETED. 7. LONG'L GIRDER 11'-5½" OFF ℄ BET FR 2 & 24 CHG'D FROM 18×7½×60#I-T TO 18×7½×50#I-T & COLLARS INWAY OF TRANSV DK BMS DELETED. 8. BKT 5-G MODIFIED AND 12×12×65#I-T SUPPORT ADDED.	3/4/70	H	—	—	LTR 5/29/70	
2', 8'	B CONT'D	9. LONG'L GIRD BET FR 22 & 24 RELOCATED FROM 27'-4" OFF ℄ TO LONG'L #8 AT 22'-0½ OFF ℄. 10. INSERT PLT INBD OF 9'-3¾ OFF ℄ BET FRS 12" FWD FR 8 TO 12" AFT FR 22 CHG'D FROM 51.0# TO 30.6#. & RES #2 RELEASED. 11. BUTT 9" AFT FR 3 & 12" AFT FR 18 AND LONG SEAM ADDED 12" OFF ℄ (S) BET FR 10 & 22 TO SUIT MAT'L. 12. SIZE OF STAN'S ADDED. 13. ITEM 1-4 ARE IN ACCORD WITH CO #31. 14. ITEM 5-10 INCL ARE IN ACCORD WITH CO #37						
	C	1. STAN AFT SIDE BHD 28 ABV DK CHG'D FROM 8×X PIPE TO 10×F.72 2. TRANSV FRAMING 23½ & 23½ INBD OF CHAIN LKG BHD MODIFIED. STBD FLWT & PMH CHG'D FROM 21" TO 24" OFF ℄ & 18×7½×60# I-T LONG. HOR AT L#1 8/3 ADDED TO SUIT FDN REQ'S FOR BITTER END. DET 9-G & 9-A CORRECTED TO AGREE. 3. END CONNECTION OF LONG'L GIRD BHD 34 AT DET 10-B & 11-B CORRECTED. 4. DET 5-G MODIFIED & PLAN VIEW AT FR 2 CORRECTED. 5. TRANSV FR 2 & 8 (STBD) CHG'D FROM 8×4×7/16 L TO 18×12×67.5#T & HDRS BET FRS 2 & 8 ADDED ABT 2'-3⅜" & 4'-8⅜" OFF ℄ (STBD) TRANSV @ FR 4 INBD OF 11'-5½" LONG. GIRD CHG'D FROM 8×4×7/16 L TO 12×3½×35# C-L. INSERT PLT BET 8" FWD FR 2 & 12" FWD FR 8 (STBD) INWAY OF CHAIN STOPPER ADDED. DET 5-G & 11-B MODIFIED & DET 4-A ADDED TO SUIT. 6. CHOCKS INDICATED BELOW DK IN WAY OF MOORING BITTS P/S AT FRS 4, 5, 6, & 7. 7. ITEM #5 & 6 TO SUIT DEVELOPEMENT OF RIGGING ARRG'T & FDNS.	[illegible]	6/12/70	[illegible]		23 JUN 70	[illegible]

RESERVATIONS

1. ~~SIZE OF LONG GIRDERS AFT FR 24 PENDING DESIGN DEVELOPEMENT OF TRANSV GIRDERS.~~ B
2. ~~INSERT PLT & FRAMING BELOW DECK BET FRS 22 & 24 OUTBD TO CHAIN LOCKER BHD PENDING APPROVAL AND LOCATION OF ANCHOR HANDLING SYSTEM.~~

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. BUTT & SEAM WELDS ARE TO BE IN ACCORDANCE WITH APPROVED FULL PENETRATION BUTT WELDS AS SHOWN ON REF #2 EXCEPT AS NOTED. MANUFACTURING MAY EXERCISE THE OPTION TO EDGE PREP EITHER SIDE OF PLATE.
4. ALL MATL TO BE MS EXCEPT WHERE NOTED OTHERWISE. ALL STEEL TO BE IN ACCORDANCE WITH ABS SPEC.

PRINT DISTRIBUTION

REVISION	O	*	A	B	C
TO			3 18 6	4 2 0	6 24 0
LYKES					
MA (WASH)					
MA (YARD)			1	1	1
JJ HENRY (HOME)					
JJ HENRY (YARD)			1	1	1
ABS			1	1	1
USCG			1	1	1
USPHS					
Bead 899			1	1	1
371			6	15	15
372			6	6	6
373					
374			1	1	1
375			1		
376			2	2	2
TPS 866			1	1	1
865			1	1	1
TOTAL NRO'S FS			23	29	29
TOTAL NRO'S HS					
TOTAL Z					

2-VD

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A		300		
	B		320		
			325		
			329		
			330		
			841		
			842		
			843		
			844		
			899		
			LIB		
			TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

MA HULL NO	Q DIV HULL NO	NAME OF VESSEL
243	20	~~TILLIE LYKES~~
242	19	~~ALMERIA LYKES~~
241	18	DR LYKES

SEABEE

MICROFILMED
C 5-10-73

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE-SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC.
DESIGN 85-L-M3

NO.	TITLE	Q DIV DWG NO	M A DWG NO
3	SHELL EXPANSION FWD 64 ABV LWR DK	30351-25×03	241-511-01-03
2	STD WELDING DETS	30313-01×02	241-529-06-01
1	STD STRUCTURAL DETS	30313-01×01	241-511-17-01

REFERENCES

Q DIV DWG NO
30343-04×1

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY, MASS 02169

DFTMN VEL/AV
DSGNR AL
SUPV [illegible]
ENGR [illegible]/MK

CABIN DECK
SCANTLING
FWD FR 34

APPROVED DATE
A. Jacobson 1/70
FOR GENERAL DYNAMICS
QUINCY DIVISION

APPROVAL LTR DATED
ABS 4-3-70
USCG 1-30-70
USPHS [illegible]

CODE IDENT NO	MARITIME ADMINISTRATION NO	REV
25316	241-S11-18-25	C

SCALE: ¼"=1'-0" & ½"=1'-0" SHEET

REV	Q DIV CONTR CHG NO	M A CONTR CHG NO	CONTR CHG APPLIC
B	31		18, 19, 20
B	30		18, 19, 20
O	CC#7	3	18, 19 & 20

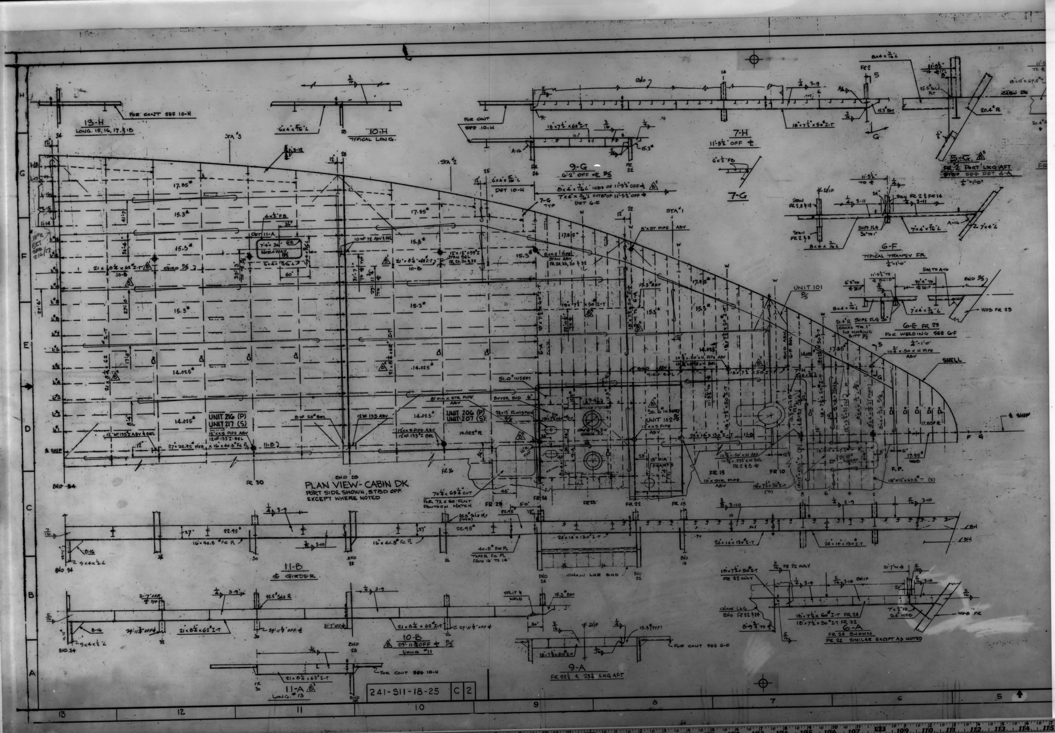
AREA ———— SQ FT

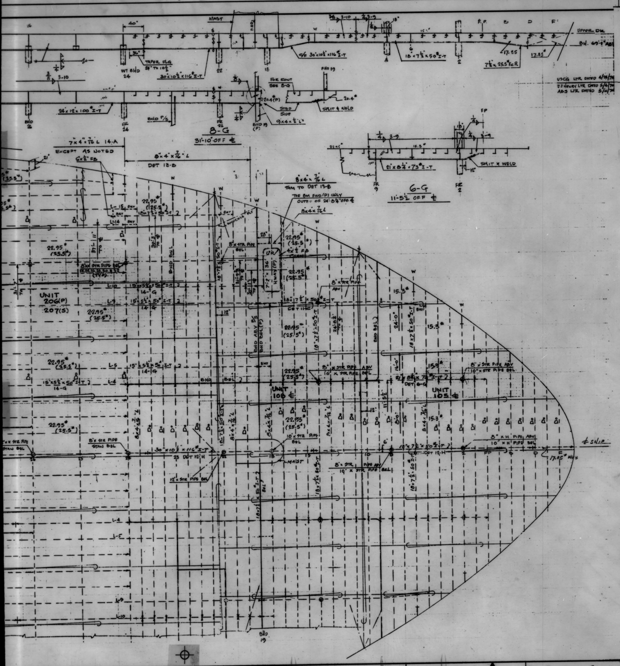
DWG NO 30343-04X1

30343-04X1

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-S11-18-25 GD NO.30343-04×1 FRAME 1 ② 3 4


PLAN VIEW - CABIN DK
PORT SIDE SHOWN, STBD OPP.
EXCEPT WHERE NOTED
13-H
LONG. 15, 16, 17, & 18
FOR CONT SEE 10-H
10-H
TYPICAL LONG.
7-H
11-5½" OFF ⊄
7-G
9-G
6'-2" OFF ⊄ P/S
5-G
FR 2 PORT LKG AFT
6-F
TYPICAL TRANSV FR
6-E FR 23
FOR WELDING SEE 6-F
SHELL
UNIT 216 (P)
UNIT 217 (S)
UNIT 206 (P)
UNIT 207 (S)
UNIT 102 P/S
UNIT 101 P/S
STA #3
STA #2
STA #1
HATCHWAY
51.0# INSERT
CHAIN LKR BHD
11-B
⊄ GIRDER
10-B
29'-11¾" OFF ⊄ P/S
LONG #11
11-A
LONG. #13
9-A
FR 22½ & 23½ LKG AFT
6-A
FR 24 SHOWN
FR 22 SIMILAR EXCEPT AS NOTED
FOR CONT SEE 6-F
FOR CONT SEE 10-H
241-S11-18-25 C 2



ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. DRAWG APPROVED FOR OWNERS BY J.J. HENRY LTR 5509/511/AHS-121-70 DATED 3/18/70.	4/?/70 AH		—	—	LTR 3/18/70	DTD
	B	1. N.T. BHDS BEL DK OUTBD OF LONG'L BHD AT FR 52, 58 & 64 INDICATED TO AGREE WITH ARRG'T. 2. INSERT PLT OUTBD STBD EXTENDED FROM 30" FWD FR 41 TO 12" FWD FR 40. TO ELIMINATE ADDITIONAL BUTT IN PLG. 3. LONG'L #14 OUTBD OF KNUCKLE BET FRS 24 & 34 CHANGED FROM (15x3⅜x53.9#L) TO 18x7½x50#I-T. 4. LONG'L #15 BET FRS 24 & 34 CHG'D FROM (7"x4"x7/16"L) TO 9x4x½"L & RES #1 RELEASED. 5. LONG'L #12 BET FRS 24 & 35 DELETED AND 24x12x100#I-T GIRD 31'-10" OFF ℄ P/S BET FRS 19 & 35 ADDED. DET 8-G CHG'D TO AGREE & RES #3 RELEASED. 6. STAN. BET FR 24 & 34 INDICATED. 7 LONG'L GIRD #5 & 9 FR 19 TO 24 CHG'D FROM (18x7½x60#I-T) & 15x5½x50#I-T EXTENDED FWD TO FR 19. CONT - PANEL 3 ABOVE	4/?/70 AH		—	—	LTR 5/4/70	DTD
	B CONT	8. LONG'L GIRD #10, 27'-4" OFF ℄ (P) FR 19 TO 26½ CHG'D FROM (21x8¼x73#I-T) TO 15x5½x50#I-T. 9. LONG'L GIRD FRS 22 TO 24 AT 39'-3" OFF ℄ P/S ADDED 10. TRANSV. BEAMS FR 19 TO 24 CHG'D FROM (8"x6"x½"L) TO 8x4x7/16"L. 11. TRANSV FR 25 TO 34 CHG'D FROM (24½x16x 40.8#/51.2# T) TO 24x12x100#I-T. & NEW TRANSV AT FR 24 ADDED. 13. DET 8-G, 11-C, 13-B, CORRECTED TO AGREE WITH ABOVE CHG'S 14. HWAY FR 19(P) RELOCATED FROM 21" TO 26" FWD FR 19. 15. STAN. FWD FR 24 IND. & STAN FR 19 RELOC. TO FR 18. 16 SUPPORT BET FR 40 & 44 ABV LONG'L #19 INDICATED INWAY OF SUPERSTRUCTURE. 17. ℄ GIRD FWD FR 19 CHG'D FROM (18x7½x60#I-T) TO 18"x7½x50#I-T & DET 12-H CORRECTED. RES #2 RELEASED 18. ITEMS 1-10 ARE IN ACCORD WITH CO #31. 19. ITEMS 11-16 ARE IN ACCORD WITH CO #37. 20. ITEMS 16 .15 IN ACCORD WITH CO #30.						
	C	1. GIRD ENDING AT G-G MOVED FROM FR 10 TO 9 TO SUIT RELOCATION OF BHD BEL 2. LONG'L GIRD 11-C FWD FR 9 MODIFIED TO SUIT CONSTR. 3. GIRD AFT FR 19 CHG'D FROM 31'-10" OFF ℄ P/S TO 31'-9⅜" OFF ℄ TO ALIGN WITH BARGE PEDASTAL SUPPORTS ABV. 4. KNUCKLE IN PLT OUTBD 37'-8" EXTENDED FWD TO FR 19. 5. GIRD ENDING AFT OF BHD 34 ANGLED OUTBD TO LINE UP WITH L-12 AT FR 35. 6. PLT WT ADDED TO INSERT PLT OUTBD OF LONG BHD AFT FR 40. 7. ADV ℄ BEL ADDED TO STAN 11'-5½" OFF ℄ FR 14. 8. ITEMS 6 & 7 ARE IN ACCORD WITH ABS APPROVAL LTR DATED 5/11/70	6/11/70 AH	M			24 JUN 70	

2XM 1446

REVISIONS	O	A	B	C
TO				6 25 0
LYKES				
M.A.(WASH)				
M.A.(YARD)			1	1
J.J.HENRY(YARD)			1	1
J.J.HENRY(HOME)				
ABS			1	1
USCG			1	1
USPHS				
FEED 839 MOB			1	1
871			10	10
872			6	4
873				
874			1	1
875				
876			2	2
TPS 866			1	1
TOTAL NRO'S FS			25	23
TOTAL NRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	B	4-15-0	800		
		✓	820		5
		✓	826		12
			829		
			830		
			841		
			842		
			843		
			844		
			899		
		✓	LIBRARY		5
		✓	835		1
			840		1
			CAMERON 824		1
			DRAKER 814		1
			LOUD 820		1
			LIASON		1
			822		2
			TOTAL		30

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. ALL MAT'L TO BE MEDIUM STEEL EXCEPT WHERE NOTED OTHERWISE ALL STEEL TO BE IN ACCORDANCE WITH ABS SPEC'S
4. THE DECK PLTG AND FRAMING THICKNESSES SHOWN ON THIS DRAWING TAKE INTO ACCOUNT THE ALLOWABLE REDUCTION FOR SPECIAL COATINGS AND ARE IN ACCORDANCE WITH THE REDUCTIONS SHOWN ON DRAWING NO 5382-511-3 ALT "C" (DK SCANTLINGS) WHERE THIS REDUCTION APPLIES, THE SCANTLINGS IN BKTS ARE NORMAL ABS SCANTLINGS eg. 22.95 (25.5#).

RESERVATIONS

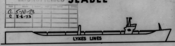
1. ~~LONG #4 FWD FR 34 PENDING LOCATION AND DEVELOPMENT OF BARGE TIEDOWN SECURING CLEATS.~~
2. ~~℄ GIRDER FR 2-19, TRANSV GIRDERS 19S INBD 28'-8¼", 19P INBD 11'-5½", 14 P/S INBD 27'-4", 10 P/S INBD 11'-5½", 6 P/S INBD 11'-5½ & 2 P/S INBD 11'-5½" PENDING FINAL DEV OF FORWARD TRANSV FRAMING.~~
3. ~~LONGS 11 & 12 FRS 24-34 & TRANSV WEB FRS 22 TO 34 SUPPORTS BELOW PENDING DEV OF FRAMING FOR BARGE LOADS.~~

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED

REV	DATE
C	5-10-73
C	8-6-73

SEABEE



SEA BARGE CLIPPER

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
5	SHELL EXP AFT 64 ABV LOWER DK	30351-25x04	S11-01-04
4	SHELL EXP FWD 64 ABV LOWER DK	30351-25x03	S11-01-03
3	SCANTLING - UPPER DECK (AFT)	30343-05x02	S11-18-27
2	STD WELDING DETS	30313-01x02	S29-06-01
1	STD STRUCTURAL DETS	30313-01x01	S11-17-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
B	30		18, 19, 20
B	37		18, 19, 20
B	31		18, 19, 20

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30343-05x1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN A.H.
DSGNR A.H.
SUPV
ENGR M.K.

UPPER DECK PLATING (FWD)
SCANTLING

APPROVED DATE 1/23/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S11-18-26	C

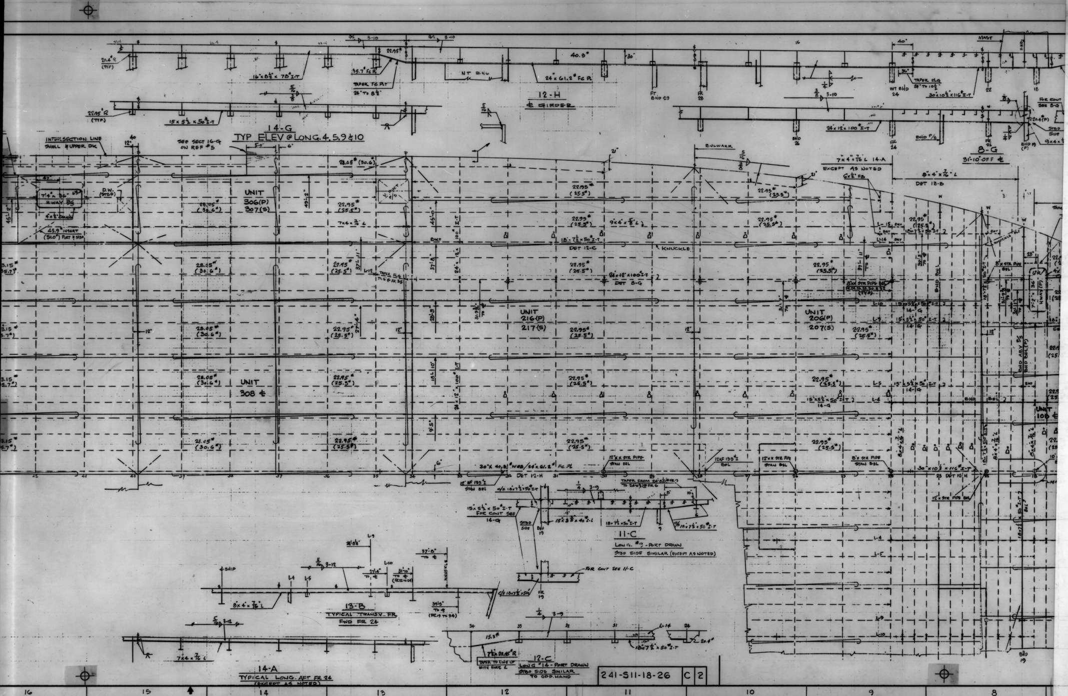
SCALE ¼" - 1'-0"
SHEET 1 OF 1

APPROVAL LTR DATED
ABS 5/11/70
USCG 2/19/70
USPHS NOT REC'D

AREA = SQ FT

30343-05x1

M.A. DWG NO.
Q div DWG NO.

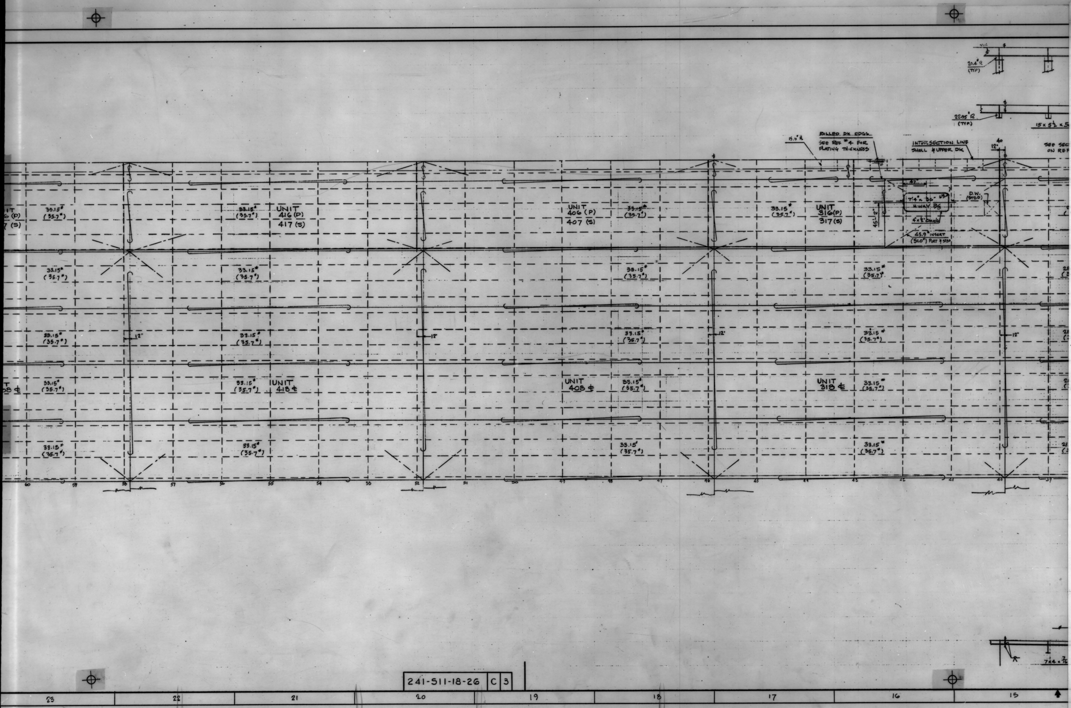

14-G
TYP ELEV @ LONG. 4, 5, 9 & 10
12-H
℄ GIRDER
8-G
31'-10" OFF ℄
INTERSECTION LINE SHELL & UPPER DK
SEE SECT 16-G ON REF #5
UNIT 306(P) 307(S)
UNIT 308 ℄
UNIT 216(P) 217(S)
UNIT 206(P) 207(S)
UNIT 106 ℄
BULWARK
KNUCKLE
DET 12-C
DET 8-G
DET 12-H
DET 13-B
7"x4"x7/16" L 14-A EXCEPT AS NOTED
24"x12"x100# I-T
24"x61.2# FC PL
16"x8 1/2"x78# I-T
15"x5 1/2"x50# I-T
30"x10 1/2"x116# I-T
30"x40.8# WEB / 24"x61.2# FC PL
22.95# (25.5#)
28.05# (30.6#)
11-C
LONG. #9 - PORT DRAWN
STBD SIDE SIMILAR (EXCEPT AS NOTED)
13-B
TYPICAL TRANSV. FR
FWD FR 24
14-A
TYPICAL LONG. AFT FR 24
(EXCEPT AS NOTED)
12-C
LONG. 14 - PORT DRAWN
STBD SIDE SIMILAR
TO OPP. HAND
MAST
WT BHD 24
8"x4"x7/16" L
16 15 14 13 12 11 10 9 8

241-S11-18-26 | C | 2

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO. 241-S11-18-26 GD NO. 30343-05x1 FRAME 1 ② 3 4

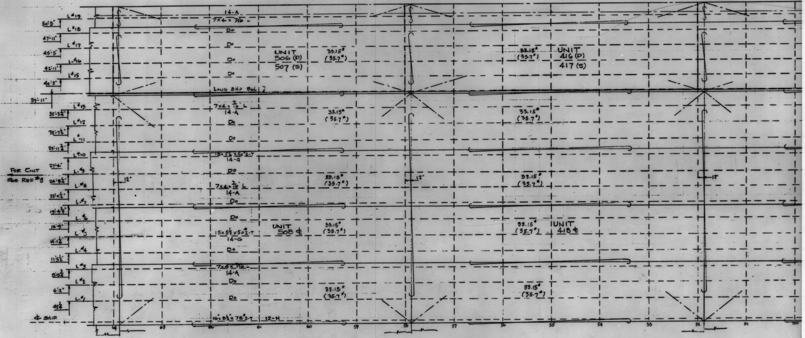
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-26 GD NO. 30343-05x1 FRAME 1 2 ③ 4


20.4# R (TYP)
22.95# R (TYP)
15 x 5½ x 5
15.3# R
ROLLED DK EDGE
SEE REF #4 FOR PLATING THICKNESS
INTERSECTION LINE SHELL & UPPER DK
SEE SEC
ON REF
12"
40
47"
7'-4" x 36" - 6½
H.WAY P/S
D.W. (STBD)
45'-2"
4" x ½" COAM'G
45.9# INSERT (51.0#) PORT & STBD
UNIT 416 (P) 417 (S)
UNIT 406 (P) 407 (S)
UNIT 316 (P) 317 (S)
UNIT 418 ℄
UNIT 408 ℄
UNIT 318 ℄
33.15# (35.7#)
12"
60
59
58
57
56
55
54
53
52
51
50
49
48
47
46
45
44
43
42
41
40
37
23
22
21
20
19
18
17
16
15

241-511-18-26 | C | 3

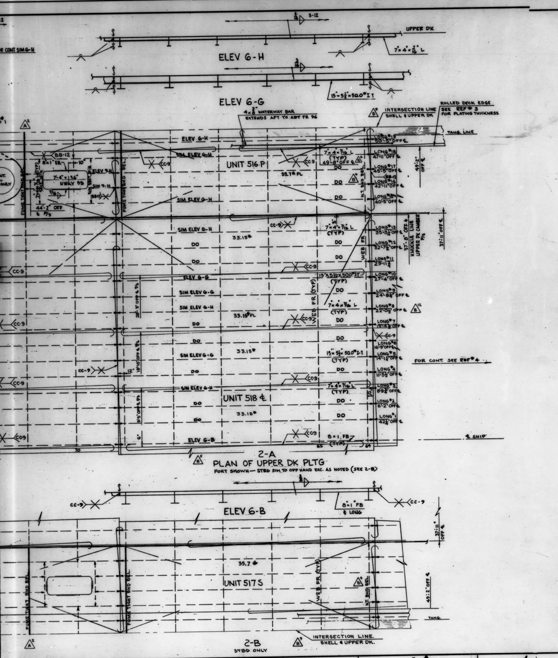
GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-511-18-26 GD NO. 30343-05x1 FRAME 1 2 3 ④


H
G
F
E
D
C
B
A
26
25
24
23
22
21
20
50'5"
47'-11"
45'-5"
42'-11"
40'-5"
37'-11"
35'-3¾"
32'-7½"
29'-11¾"
27'-4"
24'-8¼"
22'-0½"
19'-4¾"
16'-9"
14'-1¼"
11'-5½"
8'-9¾"
6'-2"
4'2¼"
L#19
L#18
L#17
L-#16
L#15
L#13
L#12
L-#11
L#10
L-#9
L-#8
L-#7
L-#6
L-#5
L-#4
L#3
L#2
L-#1
FOR CONT
SEE REF #3
℄ SHIP
14-A
7×4×7/16 L
DO
LONG BHD BDL
7×4×7/16 L
14-A
15×5½×50#I-T
14-G
16"×8½"×78#I-T
12-H
UNIT
506 (P)
507 (S)
UNIT
416 (P)
417 (S)
UNIT
508 ℄
UNIT
418 ℄
33.15#
(35.7#)
12"
64
63
62
61
60
59
58
57
56
55
54
53
52
51
50

241-511-18-26 | C | 3

GENERAL DYNAMICS, QUINCY APRIL, 1974 8X
MA NO. 241-511-18-27 GD NO. 30343-05x2 FRAME 1234


ELEV 6-H
UPPER DK
7×4×7/16 L
ELEV 6-G
15"×5½×50.0# I T
ROLLED DECK EDGE SEE REF # 3 FOR PLATING THICKNESS
4×⅜ WATERWAY BAR EXTENDS AFT TO ABT FR 96
INTERSECTION LINE SHELL & UPPER DK
TANG. LINE
ELEV 6-H
SIM ELEV 6-H
UNIT 516 P
BB-12
8×1 FB
7'-4"×36" HWAY PD
44'-2" OFF ℄ P/S
FUME TIGHT BHD BEL
W.T. BHD BEL
LONG #19 50'-5" OFF ℄
LONG #18 47'-11" OFF ℄
LONG #17 45'-5" OFF ℄
LONG #16 42'-11" OFF ℄
LONG #15 40'-5" OFF ℄
49'-2" OFF ℄
7"×4"×7/16 L (TYP)
49'-8" OFF ℄
35.7# PL
CC-9
DO
33.15#
LONG #13 35'-5½" OFF ℄
LONG #12 32'-7½" OFF ℄
LONG #11 29'-11"
37'-8" OFF ℄ KNUCKLE LINE UPPER DK CAMBER P/S
37'-11" OFF ℄
WEB FR
ELEV 6-G
SIM ELEV 6-G
SIM ELEV 6-H
15"×5½×50.0# I T (TYP)
LONG #10 27'-4" OFF ℄
LONG #9 24'-8¾" OFF ℄
LONG #8 22'-0¾" OFF ℄
LONG #7 19'-4¾" OFF ℄
LONG #6 16'-9" OFF ℄
LONG #5 14'-1" OFF ℄
LONG #4 11'-5½" OFF ℄
LONG #3 8'-9½" OFF ℄
LONG #2 6'-2" OFF ℄
LONG #1 4'-2½" OFF ℄
33.15# PL
FOR CONT. SEE REF # 4
UNIT 518 ℄ 1
8×1 FB (TYP)
ELEV 6-B
℄ SHIP
70
65
64
2-A
PLAN OF UPPER DK PLTG
PORT SHOWN — STBD SIM TO OPP HAND EXC. AS NOTED (SEE 2-B)
ELEV 6-B
8×1" FB ℄ LONG
37'-11" OFF ℄
35.7#
UNIT 517 S
49'-2" OFF ℄
WEB FR (TYP)
W.T. BHD BEL
FUME TIGHT BHD BEL
TANG.
INTERSECTION LINE. SHELL & UPPER DK.
2-B
STBD ONLY
8
7
6
5
4

ZONE	LTR	REVISIONS	Q DIV DATE	Q DIV APP'D	M A DATE	M A APP'D	OWNER DATE	OWNER APP'D
		8. DELETED RES #3. 9. SHELL LINE CORRECTED. 10. MODIFIED WORDING OF RES #1 & 2. 11. ADDED MARAD DWG NO. TO REFERENCE PLANS. 12. ADD LOC DIM. FOR DECK LONGITUDINALS. 13. ADDED REF #5, 6 & 7. 14. ℄ LONG. MODIFIED BETWEEN FRAMES 105 & 108 : DET 18-A ADDED. SOURCE : ITEM #1-4 GD/Q CHG: #7 ITEM #5-14 DES DEV						

ZONE	LTR	REVISIONS	Q DIV DATE	Q DIV APP'D	M A DATE	M A APP'D	OWNER DATE	OWNER APP'D
	A	1. DRAWING APPROVED FOR OWNER BY J.J. HENRY LTR 5589/S11/AHS-227-69 DATED 7-18-69. ITEMS 2-5 TO SUIT OWNERS APPROVAL COMMENTS. 2. ADDED TIGHTNESS DESIGNATIONS TO BHDS BELOW AT FR 71 & 82 AND INDICATED W.T. TRK FWD FR 82 (S). 3. ADDED IND OF BHDS BELOW FROM FR 82-88 (P) & 90-91 (P). 4. ADDED IND OF BHDS BELOW FROM FR 102-105. 5. SEAM WELD BETWEEN UNITS 706 & 708 ABT FR 64½, CHGD FROM BB-12 TO BB-9.	JJG		—	—	LTR 7-18-69	
	B	1. ADDED 60"×48" RAWTH 36" AFT FR 102 (P). 2. 9'×6' RAWTH 36" AFT FR 101 WAS P/S NOW (S) ONLY. ADDED 16-A. 3. IND OF BHD BELOW FR 102 CHGD FROM STBD ONLY TO P/S. 4. ADDED IND OF BHD BELOW AT FR 64 & 77 OUTBD 37'-11" BHD. 5. ADDED DK PLT STRAKING & WELD SYMBOLS FOR SAME. 6. MODIFIED ENDING OF WATERWAY BAR AT ABT FR 96 AND ADDED LOC FOR SAME. 7. ADDED LOC OF RAWTH 42" FWD FR 82 (S). (CONT)	PA JJG	9/4/69	—		HOH DESIGN	

PRINT DISTRIBUTION

REVISION	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
.10					30212 DESIGN ONLY	B	8-29	800		-
LYKES							"	820	5	
MA (WASH)								826	12	
MA (YARD)			1					829		
JJ HENRY (HOME)								830		
JJ HENRY (YARD)			1					841	-	
ABS YD			1					842		
USCG			1					843	1	
USPHS								844	1	
								899		
								LIB		
							Loud	820	1	
							LeBlanc	858	0	
2×M 1×K 871			10							
872			6				Liaison	LYKES	1	
873										
874			1							
875										
876			3							
TPS 866			1							
KEEP 899 MOB			1							
TOTAL NRO'S FS			26							
TOTAL NRO'S HS										
TOTAL Z								TOTAL	19	

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

MA HULL NO	QDIV HULL NO	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. ALL MATERIAL TO BE M.S. EXCEPT WHERE NOTED OTHERWISE ALL STEEL TO BE IN ACCORDANCE WITH A.B.S. SPEC.
4. THE DK SCANTLINGS THICKNESS SHOWN ON THIS DWG TAKE INTO ACCOUNT THE ALLOWABLE REDUCTION FOR SPECIAL COATINGS AND ARE ACCORDANCE WITH THE REDUCTIONS SHOWN ON DWG 5382-S11-3 ALT "C" (DK. SCANTLINGS) AS APPROVED BY A.B.S.

RESERVATIONS

B10 1. SIZE & LOCATING OF CUTS FOR UPTAKES, VENT ETC. IN MACHY CASING, FR 70-82 P/S PENDING DES. DEV. OF MACHY SPACE ARR.

B10 2. RECESSES AT AFT END OF UPPER DK PENDING DESIGN DEV. OF BARGE TRANSPORTER & MAKE-UP RAIL SYSTEMS.

B8 3. ~~LOCATION OF HATCH PENDING RELOCATION BY C&A~~

MICROFILMED B 5-8-78

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82:
SINGLE SCREW CARGO VESSEL
LYKES BROS STEAMSHIP CO INC
DESIGN 85-L-M3

NO	TITLE	QDIV DWG NO	MA DWG NO
7	C&A & GEN ARRGT UPPER DECK	30211-03×6	241-S16-1-6
6	C&A & GEN ARRGT CABIN DECK	30211-03×5	241-S16-1-5
5	HATCH AND SCUTTLE LIST	30544-11×1	241-S16-2-1
4	SCANTLING UPPER DK FWD	30343-05×1	241-S11-18-26
3	SHELL EXP AFT 64 ABV LOWER DK	30351-25×4	241-S11-01-04
2	STD WELDING DETS	30313-01×02	241-829-08-01
1	STD STRUCTURAL DETS	30313-01×01	241-S11-17-01

REFERENCES

B13 (refs 5–7); B11 (refs 1–4)

REV	Q DIV	M A	CONTR CHG APPLIC
B	7	3	HULL 18, 19 & 20

Q DIV DWG NO 30343-05×2

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY, MASS 02169

DFTMN JJG
DSGNP
SUPV
ENGR W.D.

SCANTLINGS
UPPER·DK AFT 64

APPROVED DATE 6/9/69
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO	MARITIME ADMINISTRATION NO	REV
25316	241 S11-18-27	B

SCALE: 1/4" = 12" SHEET 1 OF 1

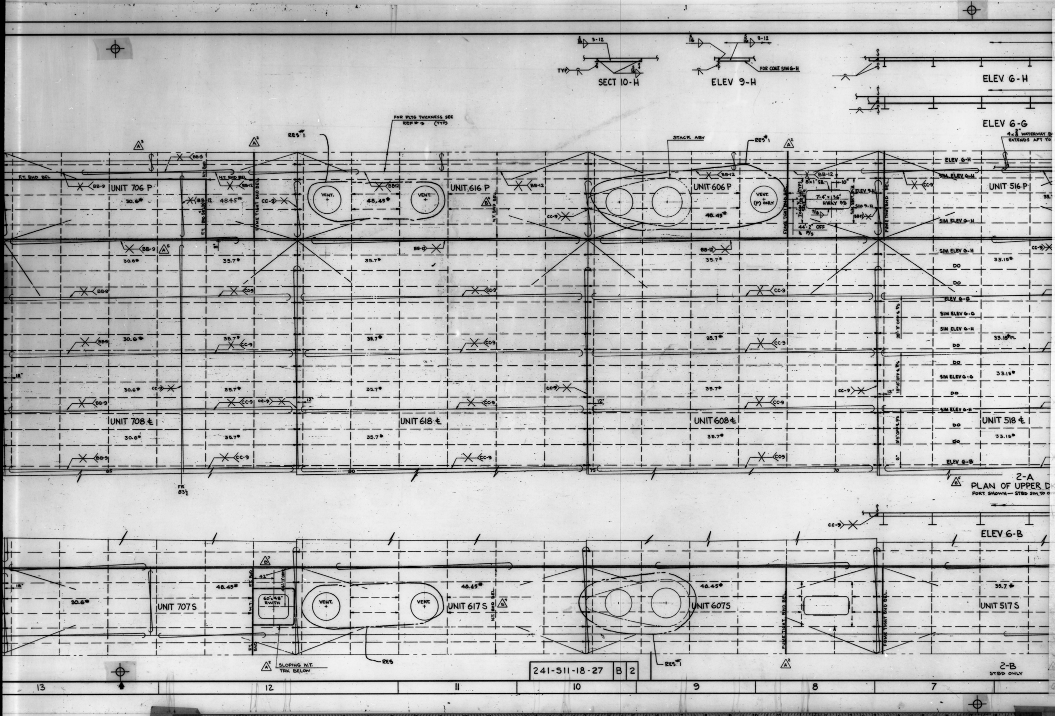
APPROVAL LTR DATED
ABS NOT REQ'D
USCG 16 JULY 69
USPHS NOT REQ'D

AREA ------ SQ FT

MA DWG NO 241 S11-18-27
SCANTLINGS - UPPER DK AFT FR 64
Q DIV DWG NO 30343-05×2

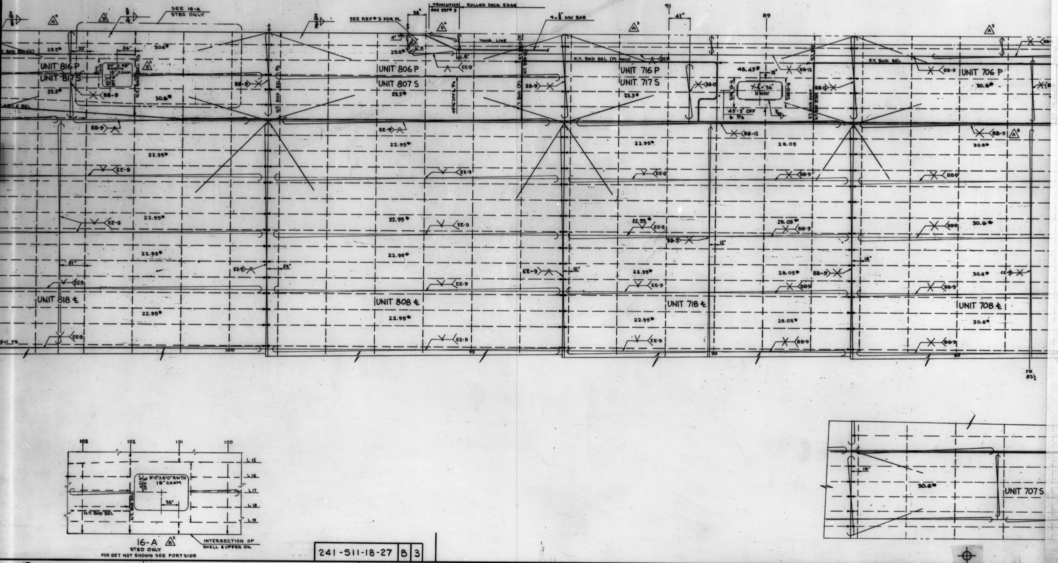
GENERAL DYNAMICS, QUINCY APRIL, 1974 8X

MA NO. 241-511-18-27 GD NO. 30343 05x2 FRAME 1234


SECT 10-H
ELEV 9-H
FOR CONT SIM G-H
ELEV 6-H
ELEV 6-G
FOR PLTG THICKNESS SEE REF # 3 (TYP)
RES #1
STACK ABV
4 x 3/8" WATERWAY BAR EXTENDS AFT TO
F.T. BHD BEL
UNIT 706 P
N.T. BHD BEL
UNIT 616 P
UNIT 606 P
UNIT 516 P
VENT.
VENT. (P) ONLY
7'-4" x 36" HWAY P/S
44'-2" OFF
FUME TIGHT BHD BEL
N.T. BHD BEL
SIM ELEV G-H
SIM ELEV 6-H
SIM ELEV 6-G
ELEV 6-G
DO
30.6#
48.45#
35.7#
33.15#
33.15# PL
BB-9
BB-12
CC-9
12"
18"
UNIT 708 ℄
UNIT 618 ℄
UNIT 608 ℄
UNIT 518 ℄
ELEV 6-B
85
80
75
70
FR 83½
2-A
PLAN OF UPPER DK PLTG
PORT SHOWN—STBD SIM TO OPP HAND EXC.
ELEV 6-B
UNIT 707 S
UNIT 617 S
UNIT 607 S
UNIT 517 S
60" x 48" RWTH
F.T. BHD
SLOPING W.T. TRK BELOW
RES
RES #1
2-B
STBD ONLY
241-511-18-27 B 2
13
12
11
10
9
8
7

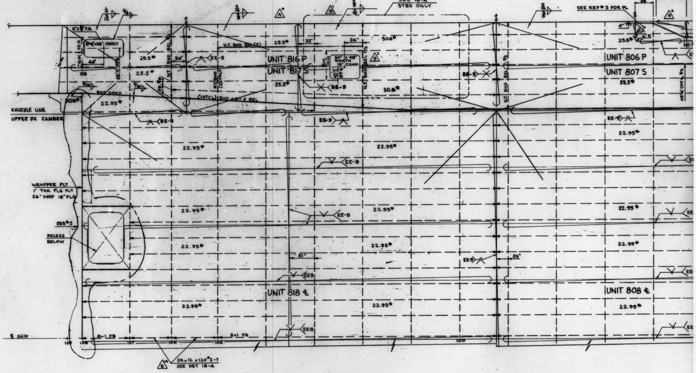
GENERAL DYNAMICS, QUINCY APRIL, 1974 8X

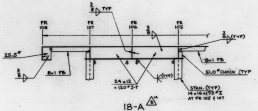
MA NO. 241-S11-18-27 GD NO. 30343-05x2 FRAME 1234


SEE 16-A
STBD ONLY
TRANSITION
SEE REF# 3
ROLLED DECK EDGE
SEE REF# 3 FOR PL
4 x 3/8" WW BAR
TANG. LINE
F.T. BHD BEL (P) ONLY
F.T. BHD BEL
UNIT 816 P
UNIT 817 S
UNIT 806 P
UNIT 807 S
UNIT 716 P
UNIT 717 S
UNIT 706 P
UNIT 818 ℄
UNIT 808 ℄
UNIT 718 ℄
UNIT 708 ℄
UNIT 707 S
60" x 40" RWTH 18" COAM
7-6" x 36" HWAY
43'-3" OFF
N.T. BHD BEL
25.5#
30.6#
22.95#
28.05#
48.43#
BB-9
BB-12
EE-9
CC-9
36"
33"
42"
51"
24"
12"
18"
91
89
100
95
90
85
FR 83½
103
102
101
100
L15
L16
L17
L18
L19
5'-0" x 6'-0" RWTH 18" COAM
16-A
STBD ONLY
FOR DET NOT SHOWN SEE PORT SIDE
INTERSECTION OF SHELL & UPPER DK.
17
16
15
14
13

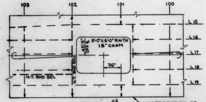
241-S11-18-27 | B | 3

GENERAL DYNAMICS, QUINCY APRIL., 1974 8X
MA NO.241-S1-18-27 GD NO.30343-05x2 FRAME 1234


SEE 16-A
STBD ONLY
SEE REF# 3 FOR PL
TRANSITION
SEE REF# 3
6"x1" F.B.
6'-6"x36" HWAY
44"
N.T. BHD BEL (S)
UNIT 816 P
UNIT 817 S
UNIT 806 P
UNIT 807 S
UNIT 818 ℄
UNIT 808 ℄
60" x 48" RWTH 18" COAM
36"
33"
30"
25.5#
30.6#
30.8#
22.95#
BHD CONT.
(INTCL) BHD ABV ℄ BEL
N.T. BHD BEL
KNUCKLE LINE
UPPER DK CAMBER
WRAPPER PLT
1" THK FLG PLT
26" DEEP 18" FLG
RES# 2
RECESS BELOW
EE-9
BB-9
51"
24"
℄ SHIP
8x1 FB
24x12 x120# I-T
SEE DET 18-A
108
107
106
105
100
H
G
F
E
D
C
B
A


FR 108
FR 107
FR 106
FR 105
3/8 TYP
3/8 (TYP)
25.5#
8x1 FB
24x12 x120# I-T
(TYP)
51.0# CHOCK (TYP
STAN. (TYP)
14x16x193# I
AT FR 105 & 107

18-A
ELEV. AT ℄ SHIP

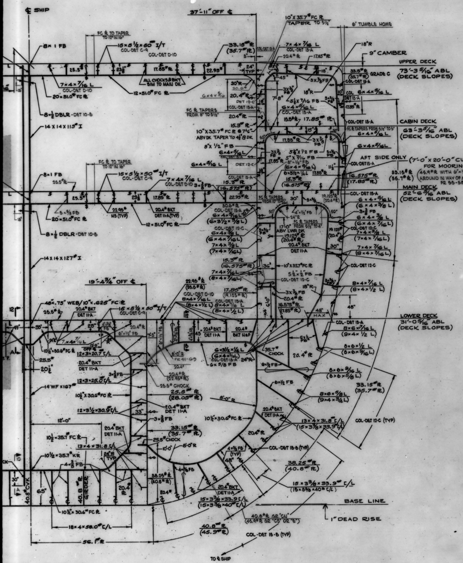

103
102
101
100
L15
L16
L17
L18
L19
8'-0"x6'-0" RWTH
18" COAM
36"
N.T. BHD BEL
INTERSECTION OF
SHELL & UPPER DK

16-A
STBD ONLY
FOR DET NOT SHOWN SEE PORTSIDE

241-S11-18-27 | B | 3

19 18 17 16 15

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-511-18-31 GD NO. 30321-30x2 FRAME ① 2 3 4


℄ SHIP
37'-11" OFF ℄
8×1 FB
FC ℞ TO TAPER TO 12" IN 16"
15×5½×50# I/T COL-DET C-9
COL-DET D-10
33.15# ℞ (35.7# ℞)
25.5#
23⅛"
17.85# ℞
22.95#
24" TYP
7×4×7/16 L COL-DET D-10
20"×51.0# FC ℞
ALL CHOCKS & BKT SIM TO MAIN DK
12×51.0# FC ℞
8×½ DBLR-DET 10-B
14×14×119# I
30"R
20.4# ℞
DET 12-C
COL-DET 13-A
FC ℞ TAPERS FROM 8" TO 5½"
15.3# ℞
10"×35.7# FC ℞ @ 7'-6" ABV DK TAPER TO 4½" @ DK
8"×½" FB
6×4×5/16 L
10"×35.7# FC ℞ TAPER TO 5½"
6" TUMBLE HOME
18"R
9" CAMBER
UPPER DECK
73'-3 5/16" ABL (DECK SLOPES)
33.15# ℞ (35.7# ℞) GRADE C
45°
3×⅜ FB
7'-8"
5½×7/16 FB
CABIN DECK
63'-3 5/16" ABL (DECK SLOPES)
FC ℞ TAPERS FROM 5½" TO 5"
5½"×½ FB
5"×7/16 FB
AFT SIDE ONLY
(7'-0"×20'-0" CUT FOR MOORING STA)
33.15# ℞ (35.7# ℞)
(45.9# ℞ WITH 6"×½" FB ALL AROUND IN WAY OF MOORING STA FR 55-58)
16.575# ℞ (17.85# ℞)
MAIN DECK
52'-6 5/16" ABL (DECK SLOPES)
22.95# NS (TYP)
20.4# BKT DET 11-A (TYP)
FC ℞ TAPERS FROM 10" TO 4"
30"
19.125# ℞ (20.4# ℞)
6×4×5/16 L (6×4×⅜ L)
6×4×⅜ L (6×4×7/16 L)
7×4×⅜ L (7×4×7/16 L)
COL-DET 12-C
24"R
17'-0" ABV LWR DK
FC ℞ TAPERS FROM 5½" TO 4"
14×14×127# I
36"
7×4×7/16 L (8×4×7/16 L)
8×4×7/16 L (8×4×½ L)
48" MAX
48"
19'-4¾" OFF ℄
48"×.75" WEB/10"×.625" FC ℞
22.95# ℞ (25.5# ℞)
17.85# ℞ (19.125# ℞)
LOWER DECK
31'-0 5/16" ABL (DECK SLOPES)
8×6×7/16 L (9×4×½ L)
8×6×½ L (8×6×9/16 L)
8×6×9/16 L (8×6×⅝ L)
8×6×⅝ L (9×4×¾ L)
35.7# CHOCK
6×3½×¼ L (6×4×5/16 L)
6×⅝ FB
6×½ FB
8'-0"R
FR 41-69
20.4# ℞ (22.95# ℞)
25.5# CHOCK
25.5# ℞ (28.05# ℞)
12×3×20.7 ⊏/L
12×3×25.0# ⊏/L
12×3½×30.9# ⊏/L
14 WF×167#
10½"×30.6# FC ℞
12'-0"
33"
10½×35.7# FC ℞
13×4×31.8# ⊏/L (15×3⅜×33.9# ⊏/L)
10½×35.7# KR
4×⅜ FB
24"R TYP
30"
65"
40.8# CVK
40.8# ℞ GIRDER
18×4×58.0# ⊏/L
56.1# ℞
10'-0"
38.25# ℞ (40.8# ℞)
15×3⅜×33.9# ⊏/L (15×3⅜×40# ⊏/L)
40.8# ℞ GR "CN" (45.9# ℞ GR "CS" OR "E")
40.8# ℞ (45.9# ℞)
COL-DET 13-B (TYP)
COL-DET 12-C (TYP)
BASE LINE
1" DEAD RISE
TO ℄ SHIP

CTION AT FR 53
P FOR FR 57 & FWD
FR 59 TO 69 SEE DET 12-D
LKG FWD

ZONE	LTR	DESCRIPTION		Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
8D 7D 8D	A	13. PANEL STIFF BELOW LOWER DK BET. L#4 & L#10 CORRECTED. 14. THK OF WEB FR OUTBD LONG'L BHD BELOW LOWER DK CHGD TO 20.4#. 15. CORRECTED SIZE OF LOWER DK LONG'L INBD OF 19'-4¾" LONG'L BHD TO SUIT REF 5. SOURCE: DES DEV	LS						
6-E 6-F	B	1. COLLAR DETAIL CALL OUTS IN LONG'L BHD WEBS BET LWR TO UPP DK CORRECTED TO SUIT ENGINEERING INSTRUCTIONS & JJ HENRY MARKED PRINT DATED 17 NOV 69. 2. 12-D - INBD FACE ℞ OF WEB CHG'D FROM 12"×40.8# TO 10½"×30.6# AS APPROVED BY ABS LETTER DATED 4 FEB 1971.	PB	3/2/71	F.R.		—	SSH LTR DTD 3/25/71	

ABS APPL LTR DTD 6-28-71

ZONE	LTR	DESCRIPTION		Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
13C, 13D 13F, 12C 6E, 6G 8F, 8H 10H 7F, 7G 10A 7F 6G 12F, 12H 5F	A	1. PLAN APPROVED IN ACCORD WITH J.J. HENRY LTR FILE 5589/511/AHS-403-69. 2. DELETED WELDING FROM DET 13-A, 13-B, 12-B, 12-D & 11-A. 3. ADDED COLLAR DETS AT UPPER, MAIN & LOWER BMS. 4. INDICATED TAPER OF UPPER & MAIN DK FLGS ABT 9'-6" OFF ℄. 5. ADDED DET 10-B. 6. INDICATED TAPER OF FC ℞ AT UPPER, CABIN & MAIN DK BMS OUTBD OF 37'-11" BHD. 7. ADDED DET 10-A FOR CHOCK FOR ℄ STAN AT CVK. 8. ADDED COLLAR DET FOR LONG'L BHDS ABOVE LOWER DK. 9. INDICATED TUMBLE HOME. 10. DET 12-D-CHGD FB ARRGT & SIZE TO LINE UP WITH VERT WEB & CHGD CHOCK BELOW LOWER DK 37'-11" OFF ℄ TO 40.8#. 11. INDICATED SIZE OF SHELL ℞ IN WAY OF MOORING OPENING. 12. CHGD WEB FR COLLAR DET FROM 12-C TO 13-A ABV MAIN DK. SOURCE: ITEMS 1-9 TO SUIT JJ HENRY COMMENTS 10-12 TO SUIT ABS COMMENTS	LS	1/16/70		—	—	LTR 11/17	DTD /69

FOR CONT - SEE NEXT PANEL

REVISIONS	O	A	B	C
TO		1/16/0	4/29/1	
LYKES			1	
M.A.(WASH)			1	
M.A.(YARD)		1	1	
J.J.HENRY(YARD)		1	1	
J.J.HENRY(HOME)			1	
ABS 1/0		1	1	
USCG 1/0		1	1	
USPHS		1	—	
Reed P99		1		
871		8	8	
872		6	2	
873				
874		1		
875		1		
876		2	—	
TPS 866		1		
865		1		
UA 868			1	
TOTAL NRO'S FS		26		
TOTAL NRO'S HS			18	
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
			800		
			820		
			826		
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIBRARY		
			TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

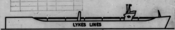
GENERAL NOTES

1. FOR STRUCT DETS & ADD'L NOTES SEE REF #1
2. FOR WELDING DETS & ADD'L NOTES SEE REF #2
3. SCANTLINGS ON THIS PLAN TAKE INTO ACCOUNT THE ALLOWABLE REDUCTION FOR SPECIAL COATINGS. WHERE THIS REDUCTION APPLIES THE SCANTLINGS IN BRACKETS ARE NORMAL A.B.S. SCANTLINGS.
4. BUTT & SEAM WELDS ARE TO BE IN ACCORDANCE WITH APPROVED FULL PENETRATION BUTT WELDS AS SHOWN ON REF #2, EXCEPT AS NOTED. MANUFACTURING MAY EXERCISE THE OPTION TO EDGE PREP EITHER SIDE OF PLATE OR SHAPE.
5. ALL MATERIAL TO BE MEDIUM STEEL EXCEPT WHERE NOTED OTHERWISE. ALL STEEL TO BE IN ACCORDANCE WITH A.B.S. SPEC.

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
B 5-11-73

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
5	LOWER DK FWD	30393-02x01	241-511-18-21
4	SHELL EXP-FWD 64-ABOVE LOWER DK	30351-25x03	241-511-01-01
3	SHELL EXP-FWD 64-BELOW LOWER DK	30351-25x01	241-511-01-01
2	STD WELDING DETS	30313-01x2	241-529-06-01
1	STD STRUCTURAL DETS	30313-01x1	241-511-17-01

REFERENCES

Q div DWG NO.
30321-30x2

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN LLL
DSGNR JE
SUPV
ENGR / M.K.

MIDSHIP SECTION FR 53
SCANTLINGS

APPROVED DATE 9/30/69
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-511-18-31	B

SCALE: 1/4" = 1'-0"
SHEET 1 OF 1

APPROVAL LTR DATED
ABS 11-28-9
USCG 11-6-69
USPHS NOT REQD

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
0	7	3	18, 19, 20

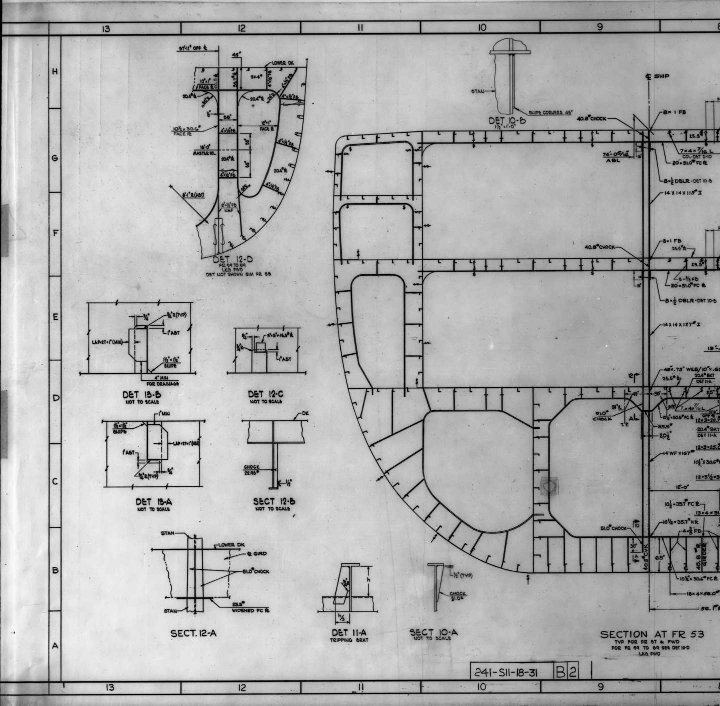
AREA = SQ FT

M.A. DWG NO.

Q div DWG NO. 30351-30x5

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

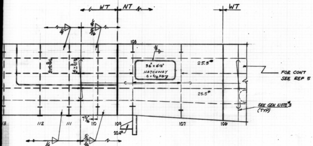
MA NO.241-511-18-31 GD NO. 30321-30x2 FRAME 1 ② 3 4

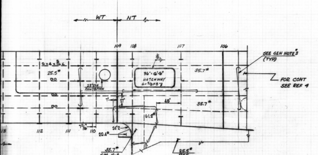


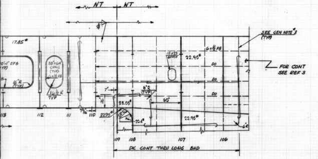
DET 12-D
FR 59 TO 69
LKG FWD
DET NOT SHOWN SIM FR 55
DET 10-B
1½"=1'-0"
DET 13-B
NOT TO SCALE
DET 12-C
NOT TO SCALE
DET 13-A
NOT TO SCALE
SECT 12-B
NOT TO SCALE
SECT. 12-A
DET 11-A
TRIPPING BRKT
SECT 10-A
NOT TO SCALE
SECTION AT FR 53
TYP FOR FR 57 & FWD
FOR FR 59 TO 69 SEE DET 12-D
LKG FWD
℄ SHIP
37'-11" OFF ℄
UPPER DECK
73'-3 5/16" ABL
(DECK SLOPES)
CABIN DECK
63'-3 5/16" ABL
(DECK SLOPES)
MAIN DECK
52'-6 5/16" ABL
(DECK SLOPES)
LOWER DECK
31'-0 5/16" ABL
(DECK SLOPES)
74'-0 5/16" ABL
19'-4 3/4" OFF ℄
9" CAMBER
6" TUMBLE HOME
18"R
AFT SIDE ONLY
14×14×115# I
14×14×127# I
14"WF×167#
BASE LINE
1" DEAD RISE
56.1" R
TO ℄ SHIP
241-S11-18-31
B 2

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	B	6. 26-B, RELOCATED AO FR 129 BEL LWR DK. 7. 10-A, 10-D, 10-F, 16-A, 16-F RELOCATED WEB FR FROM 19½" AFT FR 110 TO FR 110. 8. 24-B, MOD. WEB FR BEL LWR DK. 9. ITEMS 1 TO 9 TO SUIT MODULAR DWGS.						
	C	1. PLAN GENERALLY REVISED & UPDATED TO REFLECT DETAIL DEV. OF APPLICABLE MODULES. SOURCE:- DETAIL DEV. EM'L	5/27/71	M			15 Sep 71	WOst

REVISIONS				Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	BY	DATE	APPD	DATE	APPD	DATE	APPD
	A	1. DWG APPROVED FOR OWNER BY JJ HENRY LTR 5589/511/ AHS-36-70 DATED 1/29/70. ITEMS 2 TO 4 TO SUIT OWNERS APPROVAL. 2. 10-A, FR 127 TO 130 RESERVED FENDERS & SPONSON & ADDED RES #1 TO SUIT. 3. 25-B, INDICATED OPERATING RATF BTWN UPPER & POOP DK. 4. 27-B, ADDED 5. DWG APPROVED FOR OWNER BY ABS LTR T-8-2 DATED 2/19/70 ITEMS 6 TO 8 TO SUIT ABS APPROVAL. 6. 10-A, FR 110½ TO 30" FWD FR 106 CHGD RTG FROM 17.85# TO 21.675# 7. 26-B, CHGD STIFF UPPER TO POOP DK FROM 12x3 C/L TO 13x4x31.8 C/L & CHGD BRKT TO 30"x30"x22.95# TO SUIT. 8. 26-B, ADDED FB STIFF TO BRKT 12" FWD 129 TO 130 @ LWR DK	MR/RSK	3/12/70	MR EJ	—		LTR 1/29/70	
	B	1. 10-A, REVISED SIZE OF OPNG FR 116, 119½ & 125½. 2. 10-D, DELETED 23" AO 24" FWD FR 106 3. 19-D, ADDED RES #1 4. 21-B, ADDED TRANSV WBD OF LONG BHD & MOD. ARCH @ UPPER DK 5. 25-B, MOD. STR IN WAY OF MOORING OPNG @ MN DK	RE/SMK						


WT
NT
WT
¼
¼
5/16
108
⅜
36" x 6'-6"
HATCHWAY
6 x ⅝ FB
25.5#
25.5#
FOR CONT
SEE REF 5
SEE GEN NOTE #3
(TYP)
113
112
111
7 11/16"
110
109
107
106
20.4#
¼
5/16
⅜


WT
NT
109
108
107
106
SEE GEN NOTE #3
(TYP)
6 x 4 x 5/16 L
25.5#
DO
DO
DO
23" DIA
RAWTBPMH
⅜
36" x 6'-6"
HATCHWAY
6 x ⅝ FB
35.7#
35.7#
FOR CONT
SEE REF 4
7"
27"
48"
61.2#
113
112
111
7 11/16"
110
24" R
20.4#
35.7#
SIM 10-A
25.5#
REF


NT
NT
¼
SEE GEN NOTE #3
(TYP)
17.85#
10'-1" OPG
(TYP)
33" x 64" OPNG
(TYP)
6 x ½ FB
16" R
(TYP)
1½ R
TYP
6 x ½ FB
15 x 23
BPMH
22.95#
DO
DO
DO
FOR CONT
SEE REF 3
7"
6" R
(TYP)
60"
28.05#
22.95#
20.4#
22.95#
6" R
113
112
111
7 11/16"
110
109
108
107
106
DK CONT THRU LONG BHD

REVISIONS	O	A	B	C								SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO			3/13/0	9/15/1								30212	C	9-16-1	800		
LYKES N/IRL				1											820		5
M.A.(WASH)				1											826		12
M.A.(YARD)			1	1											829		
J.J.HENRY(YARD)			1	1											830		7
J.J.HENRY(HOME)				2											841		
ABS Y/D			1	1											842		
USCG Y/D			1	1											843		1
USPHS															844		5
Reed 899			1												899		
															LIBRARY		3
															828		1
															885		1
871			6	8										Laurier	812		1
872			6	–										Drucker	814		1
873														Schoubroeck Lykes	812		2
874			1														
875																	
876			2	–													
TPS 866			1														
865			1														
LIA. BLDG 708				1													
TOTAL NRO'S FS			22														
TOTAL NRO'S HS				17													
TOTAL RO															TOTAL		34

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G							

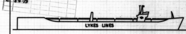
GENERAL NOTES

1. FOR STRUCTURAL DETAILS & ADDITIONAL NOTES SEE REF #1.
2. FOR WELDING DETAILS & ADDITIONAL NOTES SEE REF #2.
3. BUTT & SEAM WELDS ARE TO BE IN ACCORDANCE WITH APPROVED FULL PENETRATION BUTT WELDS AS SHOWN ON REF #2 EXCEPT AS NOTED. MANUFACTURING MAY EXERCISE THE OPTION TO EDGE PREP EITHER SIDE OF PLATE OR SHAPE.
4. CORNER SNIPES TO BE 1½" x 1½" UNLESS OTHERWISE NOTED. THEY MAY BE OMITTED WHERE INDICATED ONLY ON DWG. THEY MUST BE FITTED WHERE DIMENSIONED ON THE DWG.
5. OVERFLOWS ARE 3 FT ABV CABIN DK.
6. SCANTLINGS ON THIS PLAN TAKE INTO ACCOUNT THE ALLOWABLE REDUCTION FOR SPECIAL COATINGS, WHERE THIS REDUCTION APPLIES THE SCANTLINGS IN BRACKETS ARE NORMAL A.B.S. SCANTLINGS.
7. STIFFENING OF DKS & BHDS TO BE INCREASED WHERE REQUIRED IN WAY OF CONCENTRATED LOADS FROM MACHINERY, BITTS & CHOCKS ETC.
8. ALL BHD STIFF. TO HAVE CLIPPED END CONNECTIONS IN ACCORDANCE WITH REF 1.

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
C 5-10-73
C 8-6-73

SEABEE


LYKES LINES

SEA BARGE CLIPPER

RESERVATIONS

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
8			
7	CANT. SHELL, LONG BHD & WEB FRS	30351-25x5	S11-18-34
6	UPPER DK AFT 64	30343-05x2	S11-18-27
5	CABIN DK	30343-04x1	S11-18-25
4	MN DK PLTG AFT	30343-03x2	S11-18-24
3	SCANTLINGS LWR DK RTG AFT	30343-02x02	S11-18-22
2	STANDARD WELDING DETAILS	30313-01x02	S29-06-01
1	STANDARD STRUCTURAL DETAILS	30313-01x01	S11-17-01

REFERENCES

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30343-10x1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN MR&S
DSGNR
SUPV
ENGR

CANTILEVER SCANTLINGS
DECKS & BULKHEADS

APPROVED DATE 3-12-70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S11-18-33	C

SCALE ¼"=1'-0" & AS NOTED SHEET 1 OF 1

APPROVAL LTR DATED
ABS 2/19/70
USCG 2/19/70
USPHS Not Reqd

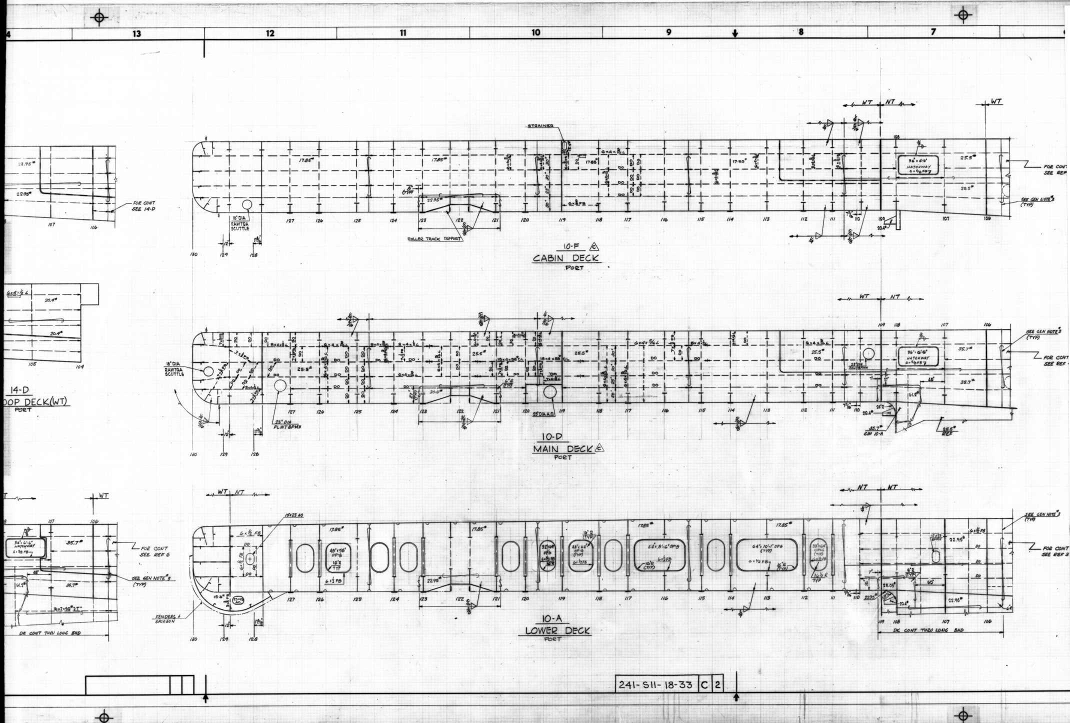
M. ROSENBLATT & SON. INC.
SAN FRANCISCO NEW YORK
M. R. & S. DWG. No. —
DRN
P.E. R.S.Y.
N.A.
CH
SECT HEAD
DATE 12/10/69

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

AREA = 33 SQ FT

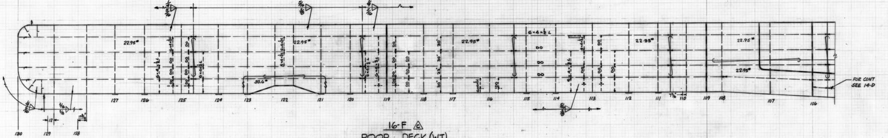
Q div DWG NO. 30343-10x01


13
12
11
10
9
8
7
STRAINER
ROLLER TRACK SUPPORT
18" DIA RAWTQA SCUTTLE
36"x6'-6" HATCHWAY
FOR CONT SEE REF
SEE GEN NOTE 3 (TYP)
FOR CONT SEE 14-D
WT
NT
10-F
CABIN DECK
PORT
23" DIA FLWTBPMH
25" DIA A.O.
SIM 10-A
14-D
OOP DECK(WT)
PORT
10-D
MAIN DECK
PORT
FOR CONT SEE REF 6
FENDERS & SPONSON
DK CONT THRU LONG BHD
10-A
LOWER DECK
PORT
130
129
128
127
126
125
124
123
122
121
120
119
118
117
116
115
114
113
112
111
110
109
108
107
106
105
104

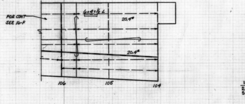
241- S11- 18-33 | C | 2

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-S11-18-33 GD NO. 30343-10x1 FRAME 1 ② 3 4

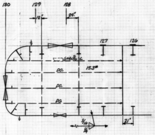
20 19 18 17 16 15 14 13


22.95#
6×4×½ L
DO
30.6#
FOR CONT SEE 14-D
130
129
128
127
126
125
124
123
122
121
120
119
118
117
116
115
114
113
112
111
110
109
108
107
106

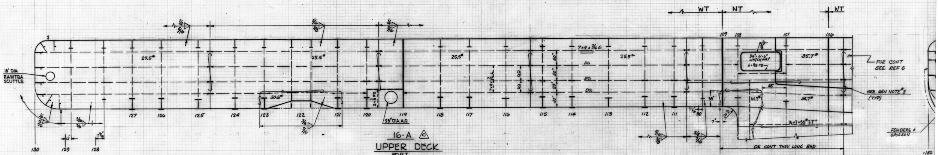
16-F Ⓒ POOP DECK (WT)
PORT


FOR CONT SEE 16-F
6×4×½ L
20.4#
106
105
104

14-D POOP DECK(WT)
PORT


130
129
128
127
126
12"
24"
15.3#
DO.
21"

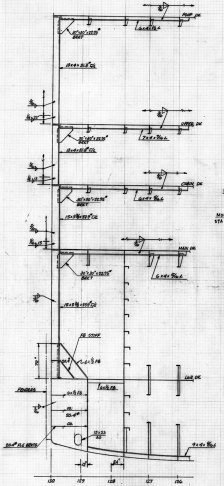
19-D OPERATING PLATF
(STBD ONLY)


WT
NT
WT
18" DIA RAWTQA SCUTTLE
25.5#
7×4×⅜ L
DO.
30.6#
36"×6'-6" HATCHWAY
6×⅜ FB
35.7#
25" DIA A.O.
FOR CONT SEE REF 6
SEE GEN NOTE 3 (TYP)
FENDERS & SPONSON
DK CONT THRU LONG BHD
130
129
128
127
126
125
124
123
122
121
120
119
118
117
116
115
114
113
112
111
110
109
108
107
106

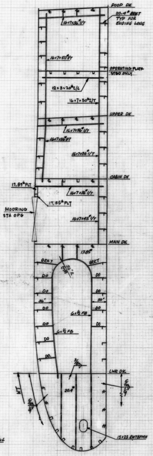
16-A Ⓒ UPPER DECK
PORT

241-S11-18-33 C 3

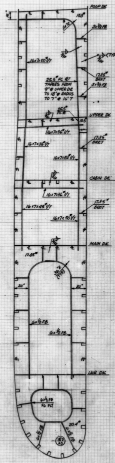
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S11-18-33 GD NO. 30343-10x1 FRAME 1 2 ③ 4


POOP DK
30"x30"x22.95# BRKT
6x4x1/2 L
13x4x31.8# C/L
UPPER DK
7x4x7/16 L
CABIN DK
6x4x5/16 L
15x3 3/8x33.9# C/L
MAIN DK
6x4x5/16 L
FB STIFF
6x1/2 FB
LWR DK
FENDERS
20.4# FLG BRKTS
15x23 AO
9x4x9/16 L
12"
24"
130
129
128
127
126

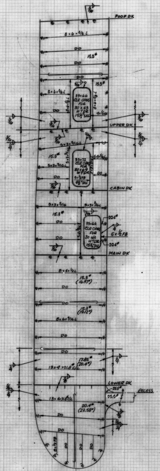
DET 26-B
TYP SECT THRU TRANSOM
PORT SIDE LKG TO PORT


POOP DK
20.4# BRKT TYP FOR ENDING LONG
16x7x36#/T
16x7x50#/T
OPERATING PLATF STBD ONLY
12x3x20# C/L
UPPER DK
CABIN DK
17.85# PLT
MOORING STA OPG
16x7x45#/T
MAIN DK
BRKT
6x1/2 FB
LWR DK
15x23 RWTBPMH

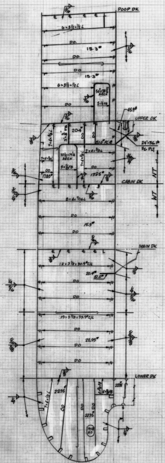
DET 25-B
WEB FR 12" FWD FR 129
STBD LKG AFT
FOR DETAILS NOT SHOWN SEE 22-B REF 7


POOP DK
3x3/8 FB
16x7x50#/T
25.5# FC BT TAPERS FROM 9" @ UPPER DK TO 18" @ RADIUS TO 7" @ 16"T
17.85# BRKT
UPPER DK
CABIN DK
16x7x45#/T
MAIN DK
6x1/2 FB
LWR DK
6x1/2 FB FC PLT
18x12 AO

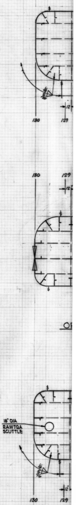
DET 24-B
WEB FR 7 11/16" FWD FR 110
STBD LKG AFT
FOR DETAILS NOT SHOWN SEE 22-B REF 7


POOP DK
8x6x5/16 L
15.3#
UPPER DK
CABIN DK
MAIN DK
8x6x9/16 L
13x4x31.8# C/L
LOWER DK
RECESS
20.4# (23.58#)

DET 22-B
BHD FR 109 (WT)
STBD LKG AFT


POOP DK
6x3 1/2x1/2 L
15.3#
UPPER DK
24x56.1# FC PLT
CABIN DK
WT
MAIN DK
12x3 1/2x30.9# C/L
15x3 3/8x33.9# C/L
22.95#
LOWER DK

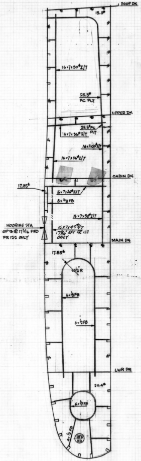
DET 21-B
BHD FR 106
STBD LKG AFT


130
129
18" DIA RAWTOA SCUTTLE

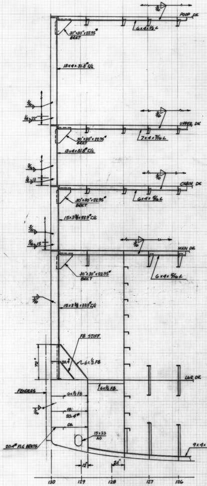
241-S11-18-33 C 4

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-S11-18-33 GD NO. 30343-10x1 FRAME 1 2 3 ④

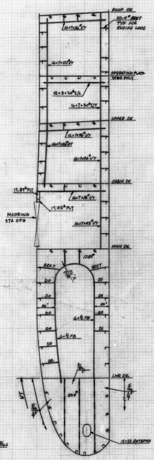
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S11-18-33 GD NO. 30343-10x1 FRAME 1 2 3 4 ⑤


POOP DK
UPPER DK
CABIN DK
MAIN DK
LWR DK
MOORING STA OP'G @ 17 3/16 FWD FR 122 ONLY
16×7×45#I/T 17 3/16" AFT FR 122 ONLY
25.5# FC PLT
6×1/2 FB
17.85#
20.4#

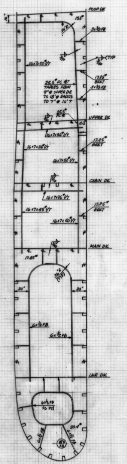
DET 27-B
WEB FR 17 3/16 FWD FR 122
WEB FR 17 3/16 AFT FR 122 SIM
FOR DET NOT SHOWN SEE 24-B


POOP DK
UPPER DK
CABIN DK
MAIN DK
LWR DK
30"×30"×22.95# BRKT
FB STIFF
FENDERS
20.4# FLG BRKTS
15×23 AO
12"
24"
130
129
128
127
126

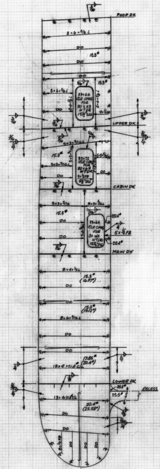
DET 26-B
TYP SECT THRU TRANSOM
PORT SIDE LKG TO PORT


POOP DK
20.4# BRKT TYP FOR ENDING LONG
OPERATING PLATF STBD ONLY
UPPER DK
CABIN DK
MAIN DK
LWR DK
MOORING STA OP'G
17.85# PLT
15×23 RWTBPMH

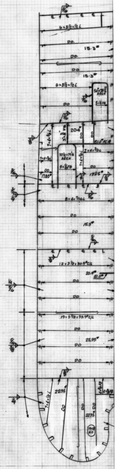
DET 25-B
WEB FR 12" FWD FR 129
STBD LKG AFT
FOR DETAILS NOT SHOWN SEE 22-B REF 7


POOP DK
25.5# FC BT TAPERS FROM 9" @ UPPER DK TO 18" @ RADIUS TO 7" @ 16" T
UPPER DK
CABIN DK
MAIN DK
LWR DK
17.85# BRKT
6×1/2 FB FC PLT

DET 24-B
WEB FR 7 11/16" FWD FR 110
STBD LKG AFT
FOR DETAILS NOT SHOWN SEE 22-B REF 7


POOP DK
UPPER DK
CABIN DK
MAIN DK
LOWER DK
RECESS
15.3#
20.4#
DO

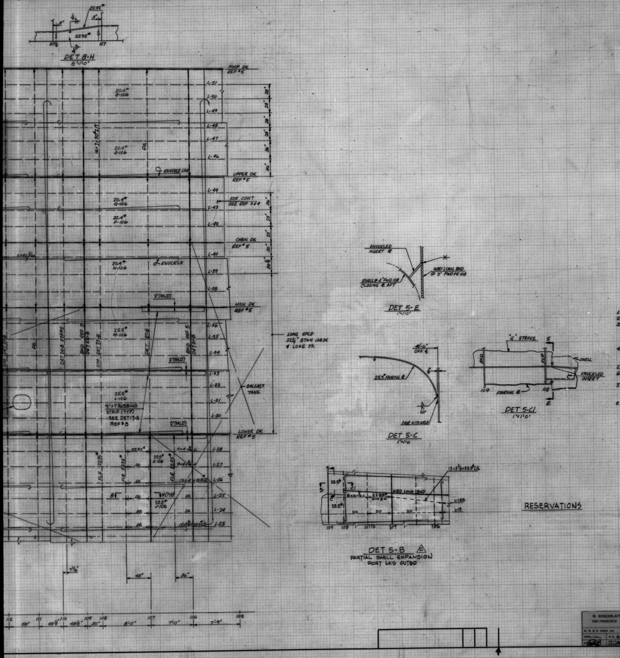
DET 22-B
BHD FR 109 (WT)
STBD LKG AFT



DET 21-B
BHD FR 106
STBD LKG AFT

241-S11-18-33 C 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S11-18-34 GD NO. 30351-25x5 FRAME ① 2 3 4



REVISIONS			BY	Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION		DATE	APPD	DATE	APPD	DATE	APPD
	B	1. 17-A, 106-108 BEL LWR DK ADDED DET FOR CHG FROM LONG BHD TO SHELL 2. ADDED DET 5-B, 5-C, 5-C1, 5-E TO SUIT 1 ABV. 3. 10-A, CHGD LONG. FWD OF FR 107½ BEL LWR DK & ADDED 8-H TO SUIT. 4. 10-A & 17-A, RELOCATED WEB FROM 19½" AFT 110 TO FR 110. 5. 10-A, ADDED RECESS MOORING OPNG FR 109-110. 6. 10-A, ADDED 8x⅜ FB OVER MOORING OPNG FR 114, 121 & 128. 7. 10-A, ADDED 18"x24" WINDOW FR 128 ABV OPERATING PLATF 8. 17-A, CHGD SIZE OF LONG. FWD 107½ BEL LWR DK. 9. 17-A, ADDED 8x6x9/16 L FR 108-109 LWR TO MN DK 10. 17-A & ZONE 4-B, ADDED RES #2 FOR BARGE ACCESS FR 125. 11. 17-A, ADDED NOTE @ POOP DK IN WAY OF TRANSOM "NOT TO SCALE" 12. 21-A, MOD. WELDING OF ROLLER TRACK. 13. 22-B, INDICATED OPERATING FLAT & LOCATION OF MOORING OPNGS. 14. 17-A, ADDED CALL OUT FOR DET 24-A IN WAY OF RECESS FR 122. 15. 23-B, INDICATED 16x7 I/T @ LWR DK. 16. 26-B, INDICATED OPERATING PLATF, MOORING OPNG & WT BHD BTWN CABIN & UPPER DK 17. 22-B, 23-B & 25-B CHGD AO BEL LWR DK FROM 24" DIA TO 18" DIA 18. ITEMS 1 TO 18 TO SUIT MODULAR DWGS	MRS						
	C	1. PLAN GENERALLY REVISED & UPDATED TO REFLECT DETAIL DEVELOPMENT OF APPLICABLE MODULES & ADDED REF #9 SOURCE:- DETAIL DEV.	AD EMcL	9/15/71	"			15 SEP 1971	Walt

REVISIONS			BY	Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION		DATE	APPD	DATE	APPD	DATE	APPD
	A	1. DWG APPROVED FOR OWNER BY JJ HENRY LTR 5589/511/ AHS-36-70 DATED 1/29/70. ITEMS 2 TO 9 TO SUIT OWNER APPROVAL. 2. ZONE 20 & 21-G & 4-B, ADDED RESERVATION FOR WINDOWS. 3. 23-A, INDICATED LONG. & ADDED NOTE. 4. 10-A & 17-A, CHGD DET FOR WEBS 17 3/16 FWD & AFT OF FR 122 TO 27-B REF 5. 5. 17-A, ADDED NOTE FOR LONG. BHD FWD FR 108. 6. REF 1-6, ADDED MARAD DWG NO. & ADDED REF 8. 7. 10-A, WEB FR 108 ABV UPPER DK CHGD TO 16x7x50# I/T. 8. 10-A, ADDED RUBBING STRIP @ LWR DK, L-33 & MN DK. 9. 26-B, INDICATED MOORING OPNG & OPERATING PLATF. 10. DWG APPROVED FOR OWNER BY ABS LTR T-8-2 DATED 2/19/70. ITEMS 11 TO 13 ADDED TO SUIT ABS APPROVAL. 11. 9-H, ADDED WELDING IN WAY OF LONG PASSING THRU WEBS. 12. 27-B, ADDED WEB THICKNESS BTWN MN & CABIN DKS. 13. 26-B, CHGD HORIZ STIFF @ L-19 FROM 12x3x25# L/L TO 12x3½x30.9# L/L	MRS Shk	3/12/70	RS	—	—	LTR 1/29/70	

W.A. DWG NO.

REVISIONS	O	A	B	C
TO			3/15/0	9/15/1
LYKES N ORL				1
M.A.(WASH)				1
M.A.(YARD)			1	1
J.J.HENRY(YARD)			1	1
J.J.HENRY(HOME)				2
ABS YD			1	1
USCG YD			1	1
USPHS				
TPS 866			1	
871			6	5
872			6	
873				
874			1	
875				
876			2	
TPS 866			1	
865			1	
LIA-BLDG #8				1
TOTAL NRO'S FS			22	
TOTAL NRO'S HS				14
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	C	9-16-1	800		
			820		5
			826		12
			829		
			830		7
			841		
			842		
			843		1
			844		5
			899		
			LIBRARY		3
			835		1
			828		1
		Kaumer	812		1
		Brucker	814		1
		Schoussler Lykes II	812		2
			TOTAL		39

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

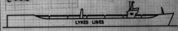
GENERAL NOTES

1. FOR STRUCTURAL DETAILS & ADDITIONAL NOTES SEE REF #1.
2. FOR WELDING DETAILS & ADDITIONAL NOTES SEE REF #2.
3. BUTT & SEAM WELDS ARE TO BE IN ACCORDANCE WITH APPROVED FULL PENETRATION BUTT WELDS AS SHOWN ON REF #2 EXCEPT AS NOTED, MANUFACTURING MAY EXERCISE THE OPTION TO EDGE PREP EITHER SIDE OF PLATE OR SHAPE.
4. CORNER SNIPES TO BE 1½" x 1½" UNLESS OTHERWISE NOTED. THEY MAY BE OMITTED WHERE INDICATED ONLY ON THE DWG. THEY MUST BE FITTED WHERE DIMENSIONED ON THE DWG.
5. ALL BUTT & SEAM WELDS TO BE ⩚ EXCEPT WHERE NOTED OTHERWISE.
6. ALL MATL TO BE ORDINARY STRENGTH HULL STRUCTURAL STL EXCEPT WHERE OTHERWISE NOTED & SHALL BE IN ACCORDANCE WITH 1968 ABS RULES.
7. SCANTLINGS ON THIS PLAN TAKE INTO ACCOUNT THE ALLOWABLE REDUCTION FOR SPECIAL COATINGS, WHERE THIS REDUCTION APPLIES THE SCANTLINGS IN BRACKETS ARE NORMAL ABS. SCANTLINGS.
8. ALL BHD STIFF TO HAVE CLIPPED END CONNECTIONS IN ACCORDANCE WITH REF 1.

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
C 5-10-73
C 8-6-73

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
9	ELEVATOR SECURING AT SEA	30617-07x8	527-00-45
8	SHELL EXP FWD 64 ABV LOWER DK	30351-25x03	511-01-03
7	MIDSHIP SECTION FR 53 SCANTLINGS	30321-30x2	511-18-31
6	SCANTLINGS LONG BHD 37'-11" OFF ℄ (AFT)	30332-01x3	511-18-20
5	CANTILEVER SCANTLINGS DKS & BHDS	30343-10x01	511-18-33
4	SHELL EXP AFT 64 BELOW LOWER DK	30351-25x02	511-01-02
3	SHELL EXP AFT 64 ABV LOWER DK	30351-25x04	511-01-04
2	STANDARD WELDING DETAILS	30813-01x02	529-06-01
1	STANDARD STRUCTURAL DETAILS	30313-01x01	511-17-01

REFERENCES

M. ROSENBLATT & SON, INC.
SAN FRANCISCO NEW YORK
N.A. J. Halpern
DATE 12/10/69

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
C	55	28	18, 19, 20

Q div DWG NO. 30351-25x5

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN Mers
DSGNR
SUPV
ENGR

CANTILEVER SCANTLINGS
SHELL, LONG BHD EXPANSION & WEB FR

APPROVED DATE 3/12/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-511-18-34	C

SCALE ¼"=1'-0" & AS NOTED SHEET 1 OF 1

APPROVAL LTR DATED
ABS 2/19/70
USCG 2/19/70
USPHS Not Reqd

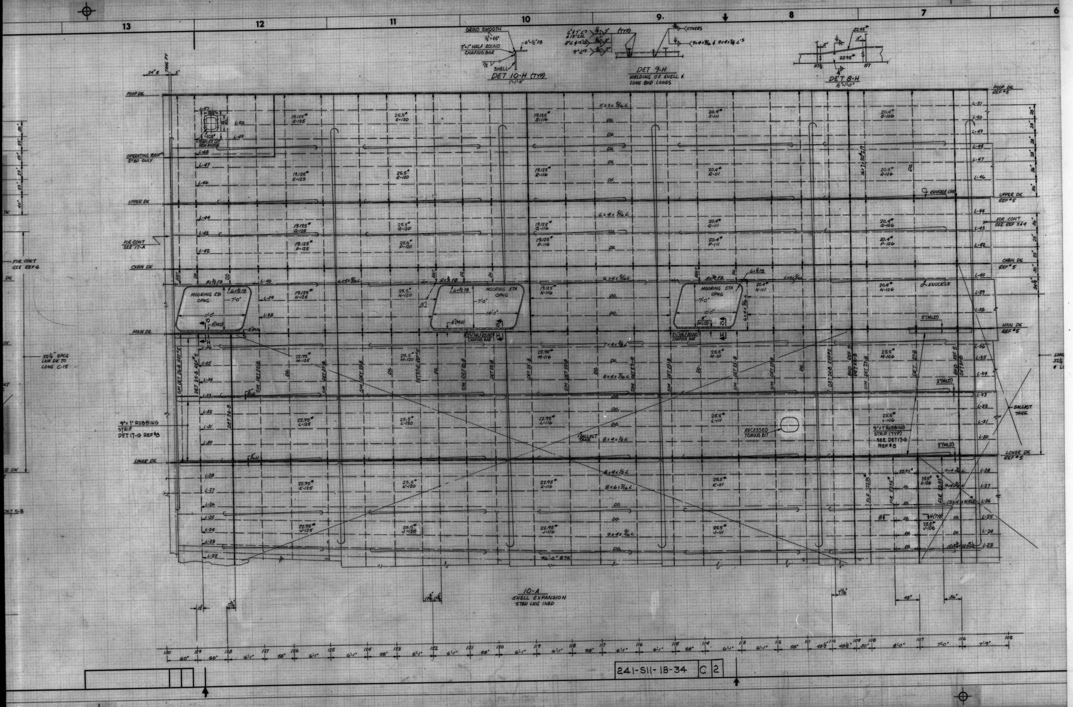
AREA = 33 SQ FT

C DWG. NO.

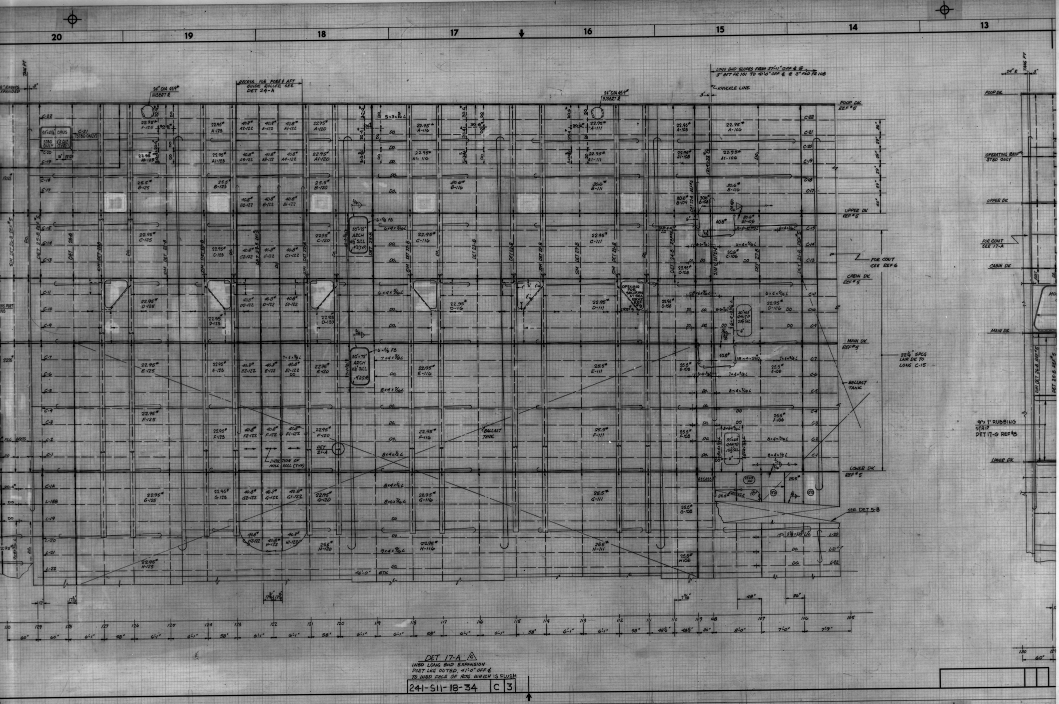
Q div DWG NO. 30351-25x5

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-S11-18-34 GD NO.30351-25X5 FRAME 1 ② 3 4



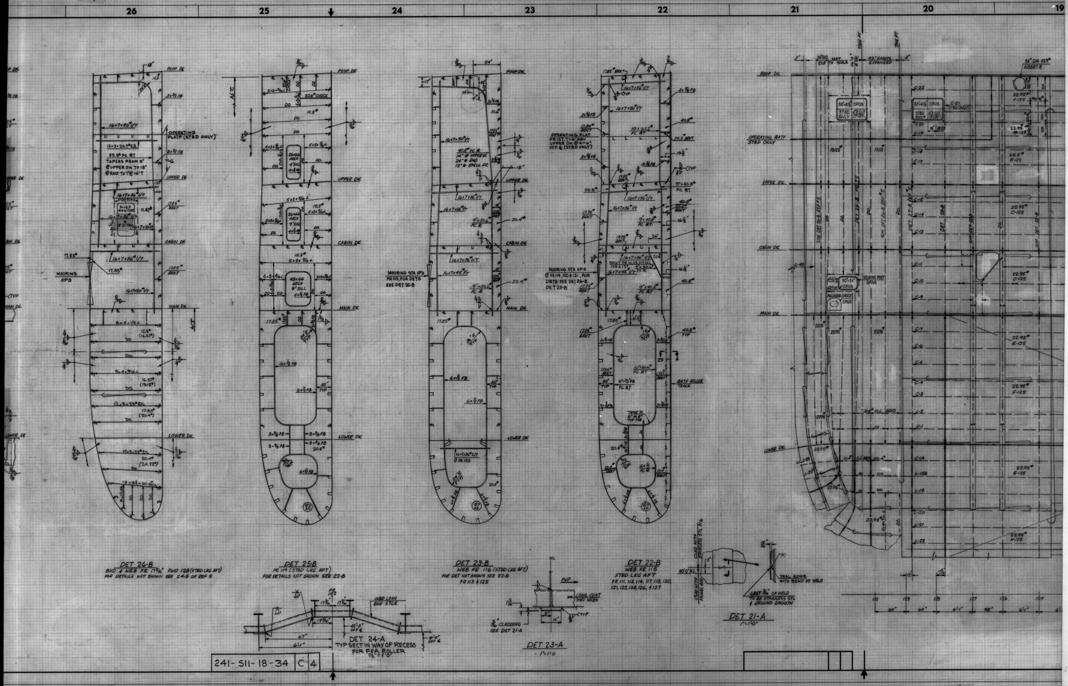
13
12
11
10
9
8
7
GRIND SMOOTH
2"×1" HALF ROUND CHAFING BAR
SHELL
DET 10-H (TYP)
1"=1'-0"
(TYP)
OTHERS
DET 9-H
WELDING OF SHELL & LONG BHD LONGS
DET 8-H
POOP DK
OPERATING RAIF STBD ONLY
UPPER DK
FOR CONT SEE 17-A
CABIN DK
MAIN DK
LOWER DK
MOORING STA OPNG
RECESSED TOWING BIT
BALLAST TANK
KNUCKLE LINE
9"×1" RUBBING STRIP DET 17-G REF #8
9"×1" RUBBING STRIP (TYP) SEE DET 17-G REF #8
POOP DK REF #6
UPPER DK REF #5
FOR CONT SEE REF 3&4
CABIN DK REF #5
MAIN DK REF #5
LOWER DK REF #5
46'-0" BTK
10-A
SHELL EXPANSION
STBD LKG INBD
130
129
128
127
126
125
124
123
122
121
120
119
118
117
116
115
114
113
112
111
110
109
108
107
106
105
241-S11-18-34
C
2


20
19
18
17
16
15
14
13
POOP DK REF #5
UPPER DK REF #5
CABIN DK REF #5
MAIN DK REF #5
LOWER DK REF #5
BALLAST TANK
RECESS FOR FORE & AFT GUIDE ROLLER SEE DET 24-A
24" DIA 45.9# INSERT R
LONG BHD SLOPES FROM 37'-11" OFF ℄ @ 3" AFT FR 101 TO 41'-0" OFF ℄ @ 3" FWD FR 108
KNUCKLE LINE
OPENING FOR SECURING AT SEA
30"x72" ARCH 6½" SILL
DIRECTION OF MILL ROLL (TYP)
DET 21-A
FOR CONT SEE REF 6
32¼" SPCG LNR DE TO LONG C-15
SEE DET 5-B
9"x1" RUBBING STRIP DET 17-G REF #8
OPERATING RAIL STBD ONLY
FOR CONT SEE 17-A
46'-0" BTK
DET 17-A
INBD LONG BHD EXPANSION
PORT LKG OUTBD, 41'-0" OFF ℄
TO INBD FACE OF RTG WHICH IS FLUSH
241-S11-18-34 C 3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-S11-18-34 GD NO.30351-25x5 FRAME 1 2 ③ 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S11-18-34 GD NO.30351-25x5 FRAME 1 2 3 ④ 5


26
25
24
23
22
21
20
19
POOP DK
UPPER DK
CABIN DK
MAIN DK
LOWER DK
OPERATING PLATF (STBD ONLY)
MOORING OPG
OPERATING FLAT FR 127, 7'-6" ABV UPPER DK @ 41'-0" OFF ℄ (STBD ONLY)
MOORING STA OPG FR 113, FOR DETS SEE DET 26-B
MOORING STA OPGS @ FR 114, 120 & 121, FOR DETS SEE DET 26-B DET 25-B
OPERATING PLATF STBD ONLY
RATF ROLLER TRACK
VIEWING PORT OPNG
PANAMA CHOCE OPNG
30⅛" CHOCK
16×7×50# I/T
16×7×36# I/T
16×7×45# I/T
12×3×20.7# C/L
25.5# FC RT TAPERS FROM 9" @ UPPER DK TO 18" @ RAD TO T @ 16"T
40.8# FC R 14" @ UPPER DK 24" @ RAD 12" @ SHELL FR
26×66 ARCH 9" SILL
48×66 ARCH 9" SILL
17.85# BRKT
INBD LONG BHD STGR
LONG CONT THRU WEBS
CLAD WITH STAINLESS STL 316
CLAD WITH MONEL 400
SEAL EDGE WITH BEAD OF WELD
LAST 3/16" OF WELD TO BE STAINLESS STL & GROUND SMOOTH
3/16" CLADDING SEE DET 21-A
24" DIA 45.9# INSERT R
FWD
TYP

DET 26-B
BHD & WEB FR 17 3/16" FWD 128 (STBD LEG AFT)
FOR DETAILS NOT SHOWN SEE 24-B OF REF 5

DET 25-B
FR 119 (STBD LEG AFT)
FOR DETAILS NOT SHOWN SEE 22-B

DET 23-B
WEB FR 116 (STBD LEG AFT)
FOR DET NOT SHOWN SEE 22-B
FR 113 & 125

DET 22-B
WEB FR 115
STBD LEG AFT
FR. 111, 112, 114, 117, 118, 120, 121, 123, 124, 126, & 127

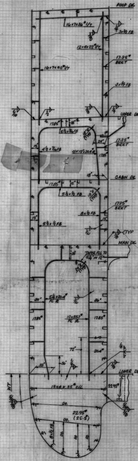
DET 24-A
TYP SECT IN WAY OF RECESS
FOR F&A ROLLER
1½" = 1'-0"

DET 23-A
1" = 1'-0"

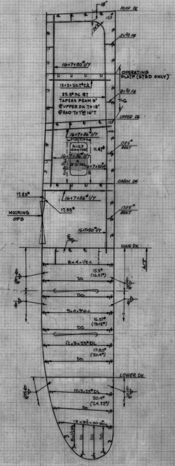
DET 21-A
1" = 1'-0"

241- S11- 18-34 C 4

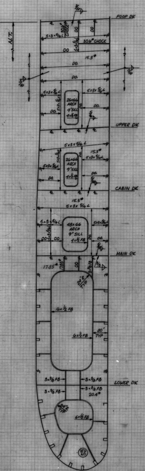
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S11-18-34 GD NO. 30351-25x5 FRAME 1 2 3 4 ⑤


POOP DK
UPPER DK
CABIN DK
MAIN DK
LOWER DK
16×7×36#I/T
16×7×50#I/T
12×4×22#I/T
17.85#
BRKT
22.95#
(25.5)

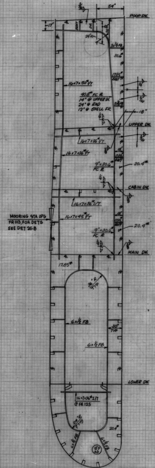
DET 27-B
WEB FR 107 (STBD LKG AFT)
FOR DET NOT SHOWN SEE 22-B


POOP DK
OPERATING PLATF (STBD ONLY)
25.5# FC RT TAPERS FROM 9" @UPPER DK TO 18" @RAD TO T@ 16"T
UPPER DK
CABIN DK
MOORING OP'G
MAIN DK
LOWER DK
16×7×50#I/T
16×7×36#I/T
17.85#
BRKT

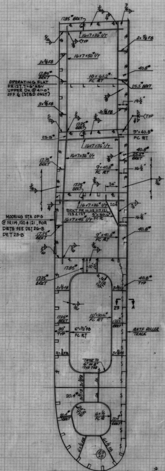
DET 26-B
BHD & WEB FR 17 3/16" FWD 128 (STBD LKG AFT)
FOR DETAILS NOT SHOWN SEE 24-B OF REF 5


POOP DK
30 1/2" CHOCK
UPPER DK
26×66 ARCH 9" SILL
CABIN DK
48×66 ARCH 9" SILL
MAIN DK
LOWER DK
15.3#
17.85#

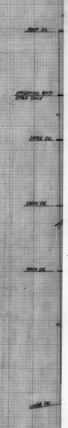
DET 25-B
FR 119 (STBD LKG AFT)
FOR DETAILS NOT SHOWN SEE 22-B

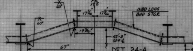

POOP DK
UPPER DK
CABIN DK
MOORING STA OP'G FR 113, FOR DETS SEE DET 26-B
MAIN DK
LOWER DK
16×7×50#I/T
16×7×36#I/T
16×7×45#I/T
@ FR 125

DET 23-B
WEB FR 116 (STBD LKG AFT)
FOR DET NOT SHOWN SEE 22-B
FR 113 & 125

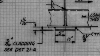

POOP DK
OPERATING FLAT FR 127, 7'-6" ABV UPPER DK @ 41'-0" OFF ℄ (STBD ONLY)
UPPER DK
CABIN DK
MOORING STA OP'G @ FR 114, 120 & 121, FOR DETS SEE DET 26-B DET 25-B
MAIN DK
LOWER DK
RATF ROLLER TRACK
16×7×50#I/T
16×7×36#I/T
16×7×45#I/T
40.8#
25.5# BRKT

DET 22-B
WEB FR 115
STBD LKG AFT
FR 111, 112, 114, 117, 118, 120,
121, 123, 124, 126, & 127

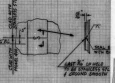

POOP DK
OPERATING PLATF STBD ONLY
UPPER DK
CABIN DK
MAIN DK
LOWER DK


FR 122
60°
17 3/16"
19 5/16"
INBD LONG BHD STGR
42'-3" OFF ℄
41'-0" OFF ℄
67"
6'-1"

DET 24-A
TYP SECT IN WAY OF RECESS
FOR F&A ROLLER
1/2" = 1'-0"


ML
FWD
LONG CONT THRU WEBS
1 11/16
3/16" CLADDING SEE DET 21-A
5"
10"
TYP

DET 23-A
1" = 1'-0"


CLAD WITH STAINLESS STL 316
40'-0" W.L.
3"
CLAD WITH MONEL 400
15/16"
SEAL E
WITH B
LAST 3/16" OF WELD TO BE STAINLESS STL & GROUND SMOOTH

DET 21-A
1" = 1'-0"

241- S11- 18 - 34 | C | 4

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-S12-01-04 GD NO.30544-03 FRAME ① 2 3 4

BILL OF MATERIAL - PER SHIP

	ITEM	QTY.	PART	DESCRIPTION	REF
	1	6	VALVE	FLOW CONTROL	2
B2	2	4	ASSY.	HOSE 3/16"ID SEE NOTE 8	2
	3	4	CONN.	FLODAR 3/8" TUBE - 1/4" FEMALE PIPE	2
	4	20'	TUBING	SEAMLESS STL.	2
	5	4	CONN	FLODAR 3/8" TUBE - 3/8" MALE PIPE	2
	6	4	ASSY	HOSE 3/16"ID SEE NOTE 7	2
	7	4	ASSY	HOSE 3/16"ID SEE NOTE 7	2
	8	8	CONN	FLODAR 1/4" TUBE - 1/4" MALE PIPE	2
B2	9	2	CONN	PUSH-PULL HYDRAULIC COUPLING SOCKET	3
	10	6	PUMP	HAND PUMP	2
B2	11	2	PUMP	HAND PUMP MOORING PORTS	3
	12				
	13				

ALL MATERIAL FOR THIS SYSTEM IS VENDOR SUPPLIED AND IS A △5 RESPONSIBILITY.

GENERAL NOTES

1. WHERE ANY PARTICULAR MAKE OR MANUFACTURER OF EQUIPMENT IS SPECIFIED IT IS NOT THE INTENT OF THIS DIAGRAM TO EXCLUDE OTHER PRODUCTS OF EQUAL MERIT. SUBSTITUTION OF PRODUCTS, HOWEVER, WILL BE SUBJECT TO SPECIFIC ENGINEERING APPROVAL.
2. PIPING ARRANGEMENTS SHALL BE SUCH AS TO AVOID OPPOSING FLOW.
3. ALL PIPING SHALL BE BENT TO RADII APPROVED BY THE USCG AND ABS, PROVIDED ALL SUCH BENDS ARE ACCOMPLISHED WITHOUT RUPTURE, WRINKLES AT INSIDE OF BENDS, THINNING OF OUTERWALL OF BENDS, BELOW MINIMUM ALLOWANCE THICKNESS, COLLAPSE OR OUT OF ROUNDNESS.
4. PIPING SUBJECT TO MECHANICAL DAMAGE SHALL BE PROTECTED BY PORTABLE STEEL GUARDS.
5. ALL VALVES SHALL BE INSTALLED IN AN UPRIGHT POSITION UNLESS OTHERWISE SPECIFICALLY APPROVED.
6. PIPING IN THIS SYSTEM IS USCG CLASS I.
7. THIS HOSE SHALL BE AEROQUIP HOSE #1503-4, ONE END TO BE 1/4" MALE PIPE AND THE OTHER END TO BE 7/16-20 J.I.C. FEMALE SWIVEL.
8. THIS HOSE SHALL BE AEROQUIP HOSE #1503-4, BOTH ENDS TO BE MALE PIPE.

A6 9. THE WORKING PRESSURE OF THIS SYSTEM IS 1800 PSIG.

B4 10. ONE EMERGENCY PORTABLE HAND PUMP SHALL BE PROVIDED FOR OPERATION OF ALL SIDE PORTS - SEE REFERENCE 6. REFER TO SPECIAL FITTING LIST FOR ADAPTERS TO BE USED.

11. 1/4" ELBOW SHALL BE INSTALLED IN 1/4" NPT PORTS FACING DOWNWARD ALONG CYLINDER BODY - SEE REFERENCES NO. 5 AND 7.

A3 12. ~~ONE HAND HYDRAULIC PUMP LOCATED STARBOARD AND ONE PORT SHALL BE STOWED, TO OPEN ALL THE MOORING PORTS ON THEIR RESPECTIVE SIDES OF THE SHIP.~~

13. PIPE CLEANING SHALL BE IN ACCORDANCE WITH GD/Q PROCEDURE NO. PCP 90.3.11.
14. THE SYSTEM SHALL BE BLED OF ALL AIR PRIOR TO TEST.

A5 15. THE TEST PRESSURE SHALL BE 2700 PSIG.

A4 16. HYDRAULIC FLUID SHALL BE MIL-L-17672-B 2075 T-H.

B5 17. FLEXIBLE HOSES IN THE MOORING PORTS HYDRAULIC SYSTEM SHALL BE AEROQUIP #1509-6.

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	B	1. REVISED: PORT SIZE IN DETAIL "A" (12-G). 2. REVISED: DESCRIPTION OF ITEMS NO. 2, 10 & 11 IN BILL OF MATERIAL AND QUANTITY OF ITEM 10 (7-G). 3. ADDED: SPECIAL FITTING LIST (7-A). 4. REVISED: NOTE 10 (5-F). 5. ADDED: NOTE 17, & REF TO SAME IN PLAN VIEW OF MAIN DECK (5-F/9-A). 6. ADDED: SYMBOL LIST & CORRECTED SYMBOL FOR FLOW CONTROL VALVE IN DETAILS "A" & "B" (12-E/12-G). 7. ADDED: VALVE NO. CONTROL TABLE (4-A). NO RDC'S INVOLVED.	AFC 11/17/71	11/29				
	A	IN ACCORDANCE WITH CONFERENCE OF 1-28-70. 1. REVISED: NO. OF MOORING PORTS WAS 10 (9B). IN ACCORDANCE WITH J.J. HENRY LTRS JUM-548-70 OF 12-4-70 & JUM-552-70 OF 12-8-70. 2. ADDED: PIPING TO MOORING PORTS (9B); MAT'L SCHED. FOR MOORING PORTS. 3. DELETED: DETAILS C & D; NOTE 12. CORRECTIVE ACTION: 4. ADDED: NOTE 16. 5. REVISED: WORKING PRESSURE WAS 3,000 PSIG (NOTE 9); TEST PRESSURE WAS 4,500 PSIG (NOTE 15). THIS REV. INCORPORATES RDC'S 873-07-249 & 872-19-595 & 597.	6/30/71					

M.A. DWG NO.

	REVISIONS	O	A	B	C
	TO	12/10/?		12/16/71	
	LYKES				
	M.A.(WASH)				
	M.A.(YARD)				
	J.J.HENRY(YARD)				
	J.J.HENRY(HOME)				
	ABS				
	USCG				
	USPHS				
	846	1		1	
	868	1		1	
	871			2	
	872 E	12		6	
	873	4			
R.FORD	874	1			
	875	1			
	876	1		2	
W.P.RAY	872			1	
	922	1			
	877	1			
	J.MOSS 873	IN			
TOTAL	NRO'S FS	IN			
TOTAL	NRO'S HS	24		18	
TOTAL	RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	B	11/19/71	800	4	
			820		
			826		
			829		
			830	7	
			841	3	
			842		
			843		
			844		
			899		
			LIBRARY	5	
			Lykes Schedule	2	
		Lourar	812	1	
			TOTAL	22	

MATERIAL SECTION SIGNATURE AREA

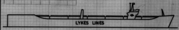
O	A	B	C	D	E	F	G

FOR GD/Q DIV DESIGN USE ONLY

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
B 11-9-73

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

REFERENCES

MA NO.	NO.	TITLE	GD/Q OR VENDOR	GD/Q OR VENDOR NO.
	9			
S16-8-513	8	2½" BORE, 1⅛" DIA ROD CYL	KRENZER	C-WK-699-3
S16-2-520	7	2" BORE, 1" DIA ROD CYL	KRENZER	C-WK-699-5
S16-2-541	6	EMERGENCY HAND PUMP SIDE PORTS	KRENZER	B-WK-699-9
S16-2-540	5	MOORING PORTS-INBD. SWINGING	KRENZER	M-WK-699-10
S16-2-512	4	42X72 INBD PORT-PERSONNEL & F.O.	KRENZER	M-WK-699-1
S16-2-516	3	HAND PUMP MOORING PORTS	KRENZER	B-WK-699-4
S16-2-519	2	PUMP TANK & VLV ASSY FOR SIDE PORTS	KRENZER	D-WK-699-6
S16-2-513	1	85 X 105 OUTBD STORES PORT	KRENZER	M-WK-699-2

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO.
30544-03

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN D. Paradis
DSGNR
SUPV
ENGR J. Moss

DIAGRAM
HYDRAULIC SYSTEM
SIDE PORTS & MOORING PORTS

APPROVED DATE 12/11/[illegible]
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S12-01-04	B

SCALE NONE
SHEET 1 OF 1

APPROVAL LTR DATED
ABS NOT REQ'D
USCG NOT REQ'D
USPHS NOT REQ'D

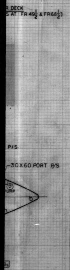
AREA = 15 SQ FT

Q div DWG NO. 30544-03

A2

MATERIAL SCHEDULE

SYSTEM	SIZE	TUBE MATERIAL	JOINTS	VALVES BODIES	VALVES TRIM
HYDRAULIC MOORING PORTS	3/8 O.D. X .035 W	STAINLESS STL ASTM-A-213 TYPE 316	37° FLARE	STAINLESS STEEL TYPE 316	STEEL



SYMBOL	PROCUREMENT RESPONSIBILITY
1	STRUCTURAL DESIGN
2	MARINE ENGINEERING DESIGN
3	
4	
5	MARINE ENGINEERING
6	ELECTRICAL ENGINEERING

B6

SYMBOL LIST

⋈	GLOBE VALVE
▨	FLEXIBLE HOSE
✱	FLOW CONTROL VALVE, VARIABLE

B7

LAST VALVE NO. USED	HMP-6

B3

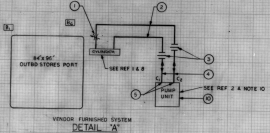
SPECIAL FITTING LIST-PER SHIP

FTG. NO.*	QTY/SHIP	DESCRIPTION	SOURCE	REF	REMARKS ‡
SPF-1	1	ADAPTER-7/16-20 JIC MALE X QUICK DISCON. (AERO. NO'S 2021-4-4C & 5602-4-4)	—	6	BY VENDOR: TO CONNECT EMERGENCY HAND PUMP TO MOORING PORTS HYDRAULIC SYSTEM
SPF-2	1	ADAPTER 7/16-20 JIC MALE X QUICK DISCON. (AERO. NO'S 2021-6-4C & 5601-6-6)	—	6	BY VENDOR: TO CONNECT EMERGENCY HAND PUMP TO STERN GATE HYDRAULIC POWER UNIT (OIL RETURN)
SPF-3	1	ADAPTER 7/16-20 JIC MALE X QUICK DISCON. (AERO. NO'S 2021-6-4C & 5602-6-6)	—	6	BY VENDOR: TO CONNECT EMERGENCY HAND PUMP TO STERN GATE HYDRAULIC POWER UNIT (OIL SUPPLY)
SPF-4	2	ADAPTER 7/16-20 JIC MALE X 9/16-18 JIC FEMALE (FLODAR NO'S A55-6-4 & A18-6)	—	6	BY VENDOR: TO CONNECT EMERGENCY HAND PUMP TO OUTBD STORES PORT CYLINDER

*FITTINGS NOT SHOWN

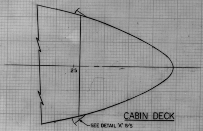
‡ NO SPECIAL FITTINGS ARE REQUIRED TO CONNECT EMERGENCY HAND PUMP TO PERSONNEL EMBARKATION AND FUEL OIL LOADING PORT CYLINDERS

30544-03 B



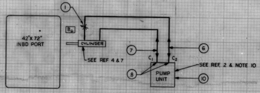
1
2
3
4
5
10
B1
B6
84"X 96"
OUTBD STORES PORT
CYLINDER
SEE REF 1 & 8
C1
C2
PUMP UNIT
SEE REF 2 & NOTE 10

VENDOR FURNISHED SYSTEM
DETAIL "A"



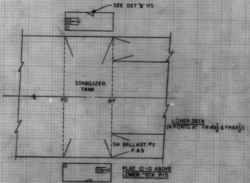
25
CABIN DECK
SEE DETAIL "A" P/S

KEY PLAN



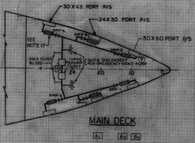
1
B6
42"X 72"
INBD PORT
CYLINDER
SEE REF 4 & 7
7
6
8
10
C1
C2
PUMP UNIT
SEE REF. 2 & NOTE 10

VENDOR FURNISHED SYSTEM
DETAIL "B"



SEE DET "B" P/S
STABILIZER TANK
710
617
LOWER DECK
(4 PORTS AT FR 49½ & FR 68½)
SW BALLAST #7
P & S
PLAT 10-0 ABOVE
LOWER DECK P/S

KEY PLAN



30 X 48 PORT P/S
24 X 30 PORT P/S
30 X 60 PORT P/S
SEE NOTE 17
HMP-6
HMP-4
HMP-2
HMP-1
HMP-3
HMP-5
HIGH POINT BLEED
HAND PUMP UNIT
QUICK DISCONNECT FOR EMERGENCY HAND PUMP
Q D
9
11
24
20
10
0
MAIN DECK
A1
A2
B5

KEY PLAN

BILL OF MATERIAL - PER SHIP

	ITEM	QTY.	PART	DESCRIPTION	REF
	1.	6	VALVE	FLOW CONTROL	2
B2	2	4	ASSY.	HOSE 3/16"ID SEE NOTE 8	2
	3	4	CONN.	FLODAR 3/8" TUBE - 1/4" FEMALE PIPE	2
	4	20'	TUBING	SEAMLESS STL.	2
	5	4	CONN	FLODAR 3/8" TUBE - 3/8" MALE PIPE	2
	6	4	ASSY	HOSE 3/16"ID SEE NOTE 7	2
	7	4	ASSY	HOSE 3/16"ID SEE NOTE 7	2
	8	8	CONN	FLODAR 1/4" TUBE - 1/4" MALE PIPE	2
B2	9	2	CONN	PUSH-PULL HYDRAULIC COUPLING SOCKET	3
	10	6	PUMP	HAND PUMP	2
B2	11	2	PUMP	HAND PUMP MOORING PORTS	3
	12				
	13				

ALL MATERIAL FOR THIS SYSTEM IS VENDOR SUPPLIED AND IS A ⚠5 RESPONSIBILITY.

GENERAL NOTES

1. WHERE ANY PARTICULAR MAKE OR MANUFACTURE DIAGRAM TO EXCLUDE OTHER PRODUCTS OF EQU SUBJECT TO SPECIFIC ENGINEERING APPROVAL
2. PIPING ARRANGEMENTS SHALL BE SUCH AS TO
3. ALL PIPING SHALL BE BENT TO RADII APPROV ACCOMPLISHED WITHOUT RUPTURE, WRINKLES A BELOW MINIMUM ALLOWANCE THICKNESS, COLL
4. PIPING SUBJECT TO MECHANICAL DAMAGE SHA
5. ALL VALVES SHALL BE INSTALLED IN AN UPR
6. PIPING IN THIS SYSTEM IS USCG CLASS I.
7. THIS HOSE SHALL BE AEROQUIP HOSE #1503- BE 7/16-20 J.I.C. FEMALE SWIVEL.
8. THIS HOSE SHALL BE AEROQUIP HOSE #1503-
9. A5 THE WORKING PRESSURE OF THIS SYSTEM IS
10. B4 ONE EMERGENCY PORTABLE HAND PUMP SHALL REFERENCE 6. REFER TO SPECIAL FITTING L
11. 1/4" ELBOW SHALL BE INSTALLED IN 1/4" N REFERENCES NO. 5 AND 7.
12. A3
13. PIPE CLEANING SHALL BE IN ACCORDANCE WI
14. THE SYSTEM SHALL BE BLED OF ALL AIR PRI
15. A5 THE TEST PRESSURE SHALL BE 2700 PSIG.
16. A4 HYDRAULIC FLUID SHALL BE MIL-L-17672-B
17. B5 FLEXIBLE HOSES IN THE MOORING PORTS HYD

A2

MATERIAL SCHEDULE

SYSTEM	SIZE	TUBE MATERIAL	JOINTS	VALVES	
				BODIES	TRIM
HYDRAULIC MOORING PORTS	3/8 O.D. X .035 W	STAINLESS STL ASTM-A-213 TYPE 316	37° FLARE	STAINLESS STEEL TYPE 316	STEEL

SYMBOL	PROCUREMENT RESPONSIBILITY
1	STRUCTURAL DESIGN
2	MARINE ENGINEERING DESIGN
3	
4	
5	MARINE ENGINEERING
6	ELECTRICAL ENGINEERING

B3

SPECIAL FITTING LIST-PER SHIP

FTG. NO.*	QTY/SHIP	DESCRIPTION	SOURCE	REF	REMARKS ☨
SPF-1	1	ADAPTER-7/16-20 JIC MALE X QUICK DISCON. (AERO. NO'S 2021-4-4C & 5602-4-4)	—	6	BY VENDOR: TO CONNECT EMERGENCY HAND PUMP TO MOORING PORTS HYDRAULIC SYSTEM
SPF-2	1	ADAPTER 7/16-20 JIC MALE X QUICK DISCON. (AERO. NO'S 2021-6-4C & 5601-6-6)	—	6	BY VENDOR: TO CONNECT EMERGENCY HAND PUMP TO STERN GATE HYDRAULIC POWER UNIT (OIL RETURN)
SPF-3	1	ADAPTER 7/16-20 JIC MALE X QUICK DISCON. (AERO. NO'S 2021-6-4C & 5602-6-6)	—	6	BY VENDOR: TO CONNECT EMERGENCY HAND PUMP TO STERN GATE HYDRAULIC POWER UNIT (OIL SUPPLY)
SPF-4	2.	ADAPTER 7/16-20 JIC MALE X 9/16-18 JIC FEMALE (FLODAR NO'S A55-6-4 & A18-6)	—	6	BY VENDOR: TO CONNECT EMERGENCY HAND PUMP TO OUTBD STORES PORT CYLINDER

*FITTINGS NOT SHOWN

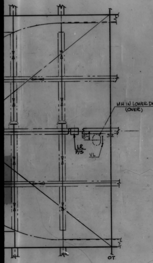
☨ NO SPECIAL FITTINGS ARE REQUIRED TO CONNECT EMERGENCY HAND PUMP TO PERSONNEL EMBARKATION AND FUEL OIL LOADING PORT CYLINDERS

30544-03

GENERAL DYNAMICS, QUINCY
MA NO.241-512-01-04 GD NO.30544-03
NOV, 1973 8X
FRAME 1 ② 3 4

ABBREVIATIONS

ABT	ABOUT
ABV	ABOVE
AO	ACCESS OPENING
BEL	BELOW
BHD	BULKHEAD
BPMH	BOLTED PLATE MANHOLE
BKTS	BRACKETS
BL	BASE LINE
℄	CENTER LINE
CTR	CENTER
COFF	COFFERDAM
CVK	CENTER LINE VERTICAL KEEL
DIA	DIAMETER
DK	DECK
FR	FRAME
H	HATCH
KNU	KNUCKLE
L	LIMBER HOLE
LR	LADDER RUNG
LONG.	LONGITUDINAL
MH	MANHOLE
NT	NON TIGHT
OT	OIL TIGHT
P	PORT
PL	PLATE
S	STARBOARD
STAN.	STANCHION
SW	SALT WATER
TYP	TYPICAL
VL	VERTICAL LADDER
WT	WATER TIGHT



GENERAL NOTES

1. LOCATION OF ACCESS OPENINGS NOT OTHERWISE DIMENSIONED ARE TO BE TAKEN FROM STRUCTURAL PLANS.
2. SIZES OF HATCHES & MANHOLES REPRESENT CLEAR OPENING.
3. COAMING HEIGHTS ARE FROM TOP OF STEEL DECK TO CLEAR OPENING.
4. CONTINUITY OF 8"×4"×½" ∠ LONG'LS INTERRUPTED FOR CLARITY OF ACCESS OPNGS.
5. TOP OF INNERBOTTOM TO BE PARALLEL TO DEADRISE. (DEADRISE = 1")
6. RECESSES FORMED OUTBD OF MARGIN PLATE KNU & SHELL FRS 70-82 P/S ARE TO BE FILLED WITH LIGHT WEIGHT CEMENTING MIXTURE & TREATED AS REQD BY REF. 2, SHEET 11, NOTE 7C, EXCEPT AS NOTED OTHERWISE.

RESERVATIONS

1. ~~LOCATION OF ALL AO & MH THRU TANK TOP FR 67-84 P/S PENDING FIRM ARRANGEMENT OF MACHINERY SPACES.~~
2. ~~LOCATIONS OF ALL PILLARS & STAN. PENDING FIRM ARR OF MACHY SPACE FRS 70-82 P/S.~~
3. ~~RESERVED SPACE FOR STABILIZER BET FRS 67-70 P/S PENDING RESOLUTION OF STABILIZER CONFIGURATION.~~
4. ~~RECESS IN TANK TOP FRS 77-78½ P PENDING APPROVAL OF RELOCATION OF MN CONDENSER & CONDENSATE PUMPS.~~
5. ~~INNER BOTTOM FRS 70-70½ BET LONGL BHDS 19'-4¾" OFF ℄ P/S FOR BALLAST PIPING COFFERDAM PENDING PIPING DEVELOPMENT.~~
6. ~~TANK TOP IN WAY OF SHAFT ALLEY BHDS FRS 84-94 P/S PENDING STRUCTURAL DESIGN DEVELOPMENT~~
7. ~~ALL MH'S, AO'S, VL'S & LR'S TO POTABLE WATER TANK & ADJACENT COFFS FRS 64-67 PENDING STRUCTURAL DESIGN DEVELOPMENT.~~
8. ~~INDICATION OF REDUCTION GEAR FDN PENDING DEVELOPMENT OF MACHINERY & FDNS.~~
9. ~~ALL MH, AO IN TANK TOP, FLOORS & LONG'L GIRDERS FROM CVK TO & INCL GIRD # 11(P) & FROM CVK TO INBD OF LONG'L # 13(S) FR 54½ TO 71 PENDING RESOLUTION OF BALLAST, BILGE, F.O. & SEWAGE PIPING RUNS. (REV B, IT. # 18)~~

241-S16-1-1	H	2

REVISIONS

ZONE	LTR	DESCRIPTION	Q DIV DATE	Q DIV APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
29,31 39	B	9. LIMBER HOLES ABT FR 58, 64 & 85 P/S CHANGED FROM 15" TO 4" DIA. LIMBER HOLES RELOC FROM FWD TO AFT OF FR 85 P/S. ADDED LIMBER HOLE ABT 45" AFT FR 85, 6" INBD OF LONG'L GIRDER 19'-4¾" OFF ℄ TO SUIT STRUCTURE.						
10,12 29,31		10 AO IN TK TOP RELOC FROM 24" FWD 58(S) & 64(P) TO 28" FWD OF 58(S) & 64(P): FROM 24" FWD OF 58(P) TO 24" AFT OF 57, 58" OFF ℄ (P); FROM 24" AFT OF 58, 18" OFF ℄ (S) TO 24" FWD OF 59 (S); FROM 24" FWD OF 64(S) TO 24" AFT OF 63 18" OFF ℄ (S) TO SUIT STRUCT.						
13,14 32,33		11 TANK TOP BOUNDARIES BHD 67 TO BHD 70, MH # 6-67-1, # 6-67-2, # 6-69-1 & # 6-69-2 CHANGED FROM WT TO OT IN ACCORD WITH GD/QCC # 6.						
36		12. OPNGS INDICATED IN BHD FR 77 P/S. STAN RELOC FROM 19'-4¾" TO 24'-8¼" (ABT) OFF ℄ (S) & STAN ADDED AT 8'-9¾" OFF ℄ (S) TO SUIT MACHY SPACE ARR. RESERVATION # 1 RELEASED.						
25 44		13. INDICATED ACCESS IN SKEG BELOW SHAFT TUBE. ADDED PLAN 44-E & SECT 44-F TO SUIT.						
42		14. ARCH LOC ON ℄ 48⅜" AFT FR 94 DELETED						
14,33		15 DRAIN TANK FOR BARGE DECK DRAINS ADDED OUTBD OF LONGL GIRDER # 14 (P). VL & MH # 6-70-2 ADDED.						
17,36		16 LO SLUDGE TANK ADDED 31" FWD 79 TO 79 BET LONG'L # 8 & 9 (P) TO SUIT PIPING ARR.						
18,37		17. RAWTBPMH # 6-81-1, 6-81-2 & VL BELOW TANK TOP RELOC FROM 7'-6" TO 17'-9" & 15'-5" (RESP.) OFF ℄, 24" FWD FR 82 P/S.						
31,32,37		18. VARIOUS MH & AO IN TANK TOP, FRS, FLOORS, LONGL GIRDERS, MODIFIED, RELOC OR OMITTED FRS 55-71 BET CVK & LONG'L GIRDER # 11 (P), CVK & LONGL # 13 (S) TO SUIT BALLAST, BILGE, F.O. ETC. PIPING ARR RUNS THRU INNERBOTTOM. RES # 9 ADDED.						
38 39,40		19 OUTLINES OF BHD 84 & ENGINE GIRDERS CHANGED TO REFLECT STRUCT DEVELOPMENT.						
18		20 WT DRAIN WELLS INDICATED FR 81½-82 BET LONGL 13 & 14 P/S, 12" AO ADDED FR 81½ OUTBD OF LONGL 14 P/S TO SUIT MACHY SPACE ARR.						
17		21. ACCESS OPNG FR 77, RELOC FROM 21" TO 7'-6" OFF ℄ (P) A.O. ADDED FR 77½, 21" OFF ℄ (P) AO FR 77½ BET LONG'L # 1 & 2 RELOC BET LONGL # 2 & 3 (P) TO SUIT STRUCT DEVELOP.						
42,43 44,7		22 H (OVER) AFT OF FR 94 RELOC TO (P), H (OVER) ADDED BET FRS 96-97 & 98 & 99 TO AGREE WITH REV B REF 1. RES # 6 RELEASED.						
17		23. AO IN FR 77 INBD & OUTBD OF LONG'L GIRDER # 11 OMITTED P/S, AO IN GIRD # 11 BET FR 77-77½ RELOC TO 77½-78 P/S & IN GIRD # 14 BET FR 76-76½ P/S. VL INBD OF LONG'L GIRD # 14 24" AFT FR 76 RELOC TO INBD SIDE OF AO 15"×18" AO. IN FLRS 76½ TO 78½ OUTBD OF LONG'L GIRD # 14 CHANGED TO 15"×23" P/S TO SUIT DESIGN DEVELOPMENT OF BHD 77.						
15,16,17 19,34 35,36		24 MH 6-74-1 RELOC FROM 21" TO 15'-5" OFF ℄ 24" AFT OF FR 74. MH # 6-78-1 RELOC FROM 15'-5" TO 7'-6" OFF ℄, 18" FWD OF FR 79. AO IN FLOOR FR 83½ BET LONG'L # 4 & 5 RELOC INBD BET LONG'L # 3 & 4 (S) TO SUIT PIPING ARR SOURCE: ITEMS 3,4,6,15,16,17,18,20 & 24 PIPING ARR 5,7,8,9,10,13,19 & 21 STRUCT DEV 12 & 22 MACHY ARR 23 ENGR DEV 14 DES CORR 11 GD/QCC # 6						
	C	1. PLAN REV 'B' APPROVED BY J.J. HENRY LTR FILE: 5589/S16/AHS-430-69 DATED DEC. 1, 1969.	JRS CMcG					
33		2 15"×23" FOTBPMH # 6-69-4 ADDED IN STABILIZER DUCT BHD FR 69½ TO PROVIDE ACCESS TO STABILIZER TANK.						
8-14		3 VARIOUS MH & AO IN FRS, FLRS & LONG'L GIRD'S RELOC, ADDED OMITTED FRS 55-71, BT CVK & LONG'L GIRD # 11 (P), CVK & LONG'L # 13 (S) TO SUIT REVISED BALLAST, BILGE, F.O. ETC PIPING ARR RUNS THRU IB. RESERVATION # 9 RELEASED.						
9A,10A		4. ELEV 10-A & SECT 9-A ADDED. LOC OF AO NOTE REVISED.						
		5. DRAINWELLS & RELATED AO FR 81½-82 BET LONG'L # 13 & LONG'L # 14 RELOC INBD TO BET LONG'L # 12 & LONG'L # 13 P/S. OPENING IN TANK TOP FOR DRWELL STR PL SHOWN P/S. SECT. 19-A ADDED.						
31,34		6 MH 6-64-1 ASSIGNED IN POTABLE WATER TANK & LOC 12'-9" OFF ℄, 10'-9" ABL. RELOC AO ABT COFF TO SUIT STRUCT. RES. # 7 RELEASED.						
32		7. AO 18" FWD FR 67 RELOC FROM 18" TO 24" OFF ℄ S.						
31,32		8 DELETED MARGIN PLATE EXTENSION OUTLINE FR 64-67 P/S.						
		9 MH 6-71-2 RELOC FROM 20" AFT FR 71 TO 24" FWD FR 72.						
14		10. WT TRUNK PROVIDED BETW LONG. 11 & 12, FR 70-70½ S FOR INSTALLATION OF STABILIZATION TANK SEACHEST.						
37,38		11. REVISED CONFIGURATION OF ENG'R PLTF HOIST TRUNK & INDICATED LOC OF DOOR 6-81-1.						
42-44		12. ADDED VL'S (P) TO HWAYS (OVER), AFT FR 94, 96 & 98.						
39-40		13. RELOC PLTF'S & VL'S (S), ABV SHAFT ALLEY TO FWD FR 85 & 89.						

REV "C" CONT. ON PANEL 45

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
10C TO F, 29C TO F	A	7. AO & VL FRS 58-59 P/S MOVED INBD TO SUIT STRUCT DEVELOPMENT.						
12 & 13B-G		8. AO'S IN LONGS FRS 64-67 P/S OUTBD OF LONG. BHD MODIFIED TO SUIT STRUCT DEVELOPMENT						
32 TO [illegible]		9. EXTENT OF WEB FRS 68-81 P/S IN WAY OF IB ADDED						
37B,38B		10. ENGRS PLATF HOIST TRK INDICATED FRS 81-82(S)						
19D,19E, 38D,38E		11. MH'S 6-83-3 & 6-83-4 & VL'S MOVED INBD TO SUIT STRUCT DEVELOPMENT.						
38C TO F		12. WEB FR'S 83 TO 87 INCL REVISED TO SUIT STRUCT DEVELOPMENT.						
19C,19E,20C, 20E,38C,38F, 39C,39F		13. AO & VL AT FR 83½ P/S DELETED, VL AT FR 85½ P/S & AO IN FL 84 P/S OUTBD OF LONG. 8 ADDED TO SUIT.						
20D,20E,21D, 21F,38D,39E, 40D,40E		14. AO & VL AT FR 85½ P/S DELETED, VL ADDED AFT OF FR 87 OUTBD OF IB PLTG TO SUIT.						
38D,40D,40E, 42E		15. VL'S & PLATF OVER ADDED AFT SIDE OF 84(S), 87(P), 88(S) & 93(P).						
20D,20E, 21D,21E		16. AO'S IN FLOORS 85 TO 87½ P/S ADJACENT TO ℄ SHIP MOVED INBD, AO'S ADDED IN BHD 88 P/S ADJACENT TO ℄ SHIP, AO'S P/S IN FLOOR 89 REPLACED BY AN AO AT ℄ SHIP ALL TO SUIT STRUCT DEVELOPMENT. EXTENT OF ℄ COMPT AFT MODIFIED TO SUIT.						
12C,D,E,F, 13C,D,E,F, 7A		17. FLOORS ADDED BELOW POTABLE WATER TANK BHDS 3'-0" AFT OF BHD 64 & 3'-0" FWD OF BHD 67 DOCKING BKTS AT FR 64½ & 66½ RELOCATED TO FR 64⅔ & 66⅓ TO SUIT. NO. OF AO'S IN IB & VL'S TO CD BELOW POTABLE WATER TANK REDUCED FROM 8 TO 4, AO'S ADDED IN LONG. # 3 AT FR 65½ P/S TO SUIT RES # 7 ADDED FOR ALL MH'S, AO'S, VL'S & LR'S IN THIS AREA						
17A,17H		18. AO IN FLOOR 79(P) OUTBD OF OUTBD GIRDER MOVED OUTBD & AO IN FLOOR 79(S) ADDED TO SUIT STRUCTUAL DEVELOPMENT.						
12B,12C		19. AO'S ADDED IN LONG. 14 BET. FR'S 81 & 82 P/S.						
27 TO 37		20. ℄ STANS. FR 53-69 ADDED & STANS. 71 TO 81 MODIFIED.						
36C,36F 37C,37F		21. LOC OF REDUCTION GEAR FDN ADDED & RES # 8 ADDED TO SUIT. REV 'O' APPD BY U.S.C.G. LTR OF 5/26/1969 & BY USPH LTR OF 6/11/69 AND BY JJ HENRY LTR FILE 5589/S16/AHS-99-69 OF 4/22/69 SUBJECT TO COMMENTS NOTED ABV. SOURCE: ITEMS 1 TO 4 TO SUIT J.J. HENRY APPROVAL LTR OF APRIL 22, 1969 FILE 5589/S16/AHS-99-69. ITEMS 5 TO 19 INCL DESIGN DEVELOPMENT. ITEM 20 & 21 (COST CHG # 7) IN ACCORDANCE WITH TWX-NEMEC TO GEN DYN MARAD, J.J. HENRY JUNE 6, 1969. (CONTR CHG MA # 3).						
	B	1. PLAN REV A APPROVED BY J.J. HENRY LTR FILED 5589/S16/AHS-276-69 DATED AUG 19, 1969	R.S. CMcG 10/8/69					
		2. PLAN REV A APPROVED BY U.S.C.G. LTR 5940/GENERAL DYNAMICS DATED SEPT 2 1969						
13,14 32 33		3 LONG'L GIRDER 19'-4¾" OFF ℄ BET FR 67-71 CHANGED FROM WT TO OT & ACCESS OPNG ADDED 24" AFT OF 68 P/S. MH # 6-67-1 & 6-67-2, 15'-5" OFF ℄ 24" AFT OF 67 P/S; MH # 6-69-3 & 6-69-4, 20'-9" OFF ℄ 24" FWD OF 70 P/S & VL BEL TANK TOP DELETED. MH # 6-67-3 & 6-67-4 REASSIGNED NOS 6-67-1 & 6-67-2 RESP, TO SUIT COMBINING OF COFFERDAMS.						
14,16 33 34		4. CVK BET FR 70 & 71, 75 & 76 CHANGED FROM WT TO NT FLOOR FR 71 BET CVK & LONG'L GIRDER 19'-4¾" OFF ℄ P/S MADE WT. ACCESS OPNGS ADDED IN LONG'L GIRDER # 5 & # 7 BET FR 70-71 P/S & LONG'L GIRDER # 11 BET FR 71½-72 P/S. MH # 6-70-1, 15'-5" OFF ℄ 24" FWD FR 71(S) RELOC TO 24" FWD FR 72. NO CHANGED TO 6-71-1; MH # 6-70-2, 15'-5" OFF ℄, 24" FWD FR 71(P) RELOC TO 20" AFT OF FR 71, NO CHGD TO 6-71-2 TO SUIT PIPING & COMBINING OF COFFERDAMS. RESERVATION # 5 RELEASED.						
17		5. ACCESS OPNGS RELOC IN FLOOR FR 77 FROM 21" TO 7'-6" OFF ℄ (P) & IN FLOOR FR 77½ FROM 54" TO 7'-6" OFF ℄ (P). ACCESS OPNG ADDED IN FLOOR FR 77½ 24" OFF ℄ (P) TO SUIT STRUCTURE.						
18,37		6. CVK FR 79-82 CHANGED FROM WT TO NT. LONG'L GIRDER 19'-4¾" OFF ℄ (S) FR 79-82 CHANGED FROM WT TO NT. ACCESS OPNG ADDED 24" AFT OF 81. VL & MH # 6-79-1, 24" FWD OF FR 80 BET LONG'LS 6 & 7; VL & MH # 6-81-3, 24" FWD OF FR 82 BET LONG'LS 8 & 9 DELETED TO SUIT PIPING & COMBINING OF COFFERDAMS.						
10		7. ACCESS OPNG IN LONG'L # 3 RELOC FROM 59½" TO 24" FWD OF FR 60 P/S TO SUIT STRUCTURE.						
17		8. ACCESS OPNG IN FLOOR FR 77 RELOC FROM 15" TO 43" OUTBD OF LONG'L GIRDER # 14 P/S ACCESS OPNG IN LONG'L GIRDER # 14 RELOC FROM 24" AFT FR 77 TO 24" FWD OF FR 78 P/S TO SUIT STRUCTURE						

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
7E	A	1. GEN NOTE # 1 REVISED	R.E. T.C. 7/9/9					
7F,29C,29F 31C,31F,38C 70F,39C,39F 40D,40E		2. LIMBER HOLES IN IB PLTG FRS 55 TO 67 & 82 TO 88 INCL MOD TO SUIT STRUCT DEVELOPMENT. ABBR "L" ADDED TO ABBREVIATION LIST TO SUIT.						
14		3. RES # 7 ADDED FOR VL'S & AO'S OVER FRS 67-69 P/S						
1A		4. MARITIME ADM DWG NO. ADDED.						
10C,10F,28C 28F,8E,27E 8C,8F,9C,9F 10C,10F		5. AO & VL FWD OF FR 55 P/S IN IB DELETED. VL AFT OF FR 52(P) ADDED, AO IN LONG 6 BET. FRS 54-55 & 57-58 ADDED, AO ADDED IN FL 56 BET. LONGS 5 & 6. AO IN FLS 55, 56 & 57 OUTBD OF LONG. 6 DELETED ALL TO SUIT STRUCTURAL DEVELOPMENTS.						
8C TO F & 9C TO F		6. FRS & FLOORS 52-55 P/S INDICATED AS SOLID LINES & FLANGES OVER DOT & DASH. AO'S ADDED IN FLOORS 53, 54 & 55 & IN LONG. 3 BET. FRS 53-54 P/S TO SUIT STRUCT DEVELOPMENT.						

REVISIONS TO	O	A APP	B Rel	C 3/16/0	D 4/24/0	E 9/18/0 Rel	F 10/30/0	G 3/16/1 ALL	H 7/16/1		
LYKES N/ORL						/	/	/	/		
M.A.(WASH)						/	/	/	/		
M.A.(YARD)		1	1	1	1	1	/	/	1		
J.J.HENRY(YARD)		1	1	1	1	1	/	/	1		
J.J.HENRY(HOME)						1	/	/	2		
ABS YD		1	1	1	1	1	/	/	1		
USCG YD		1	1	1	1	1	/	/	1		
USPHS						1	1	—			
LYKES New Orleans						1	1	—			
871		12	12	12	12	8	8	5	9		
872		2	6	6	8	3	2	2	—		
873			6	6							
874		1	1	1	1	—					
875											
876		3	3	3	3	2	1	1	—		
TPS 866		1	1	1	1	1	1				
1 REED 899 MOB		1	1	1	1						
865			1	1							
1A-OLD 8/8						2	2	1	1		
TOTAL NRO'S FS		24	35		30	25	23	16	2		
TOTAL NRO'S HS				35					16		
TOTAL RO			PRELIM								

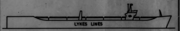
SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	7-25-9	800		
not issued to trades			820		5
30212	B	12-11-9	826		12
Trades only			829		
30212	C	3-17-0	830		7
30212	D	5-4-[illegible]	841	1	1
"	E	9-22	842		
	F	11-4-0	843		
30212	G	9-18-71	844		
			899		
			LIBRARY		0
			DRAWING S/61	1	1
			[illegible]	1	
			423	1	1
			LAUREL 812		1
			TOTAL		31

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G							

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

REFERENCES

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
2	PAINTING SCHEDULE.	30261-01×1	241-S19-1-1
1	C & A TANKS BEL LOWER DK	30211-03×2	241-S16-1-2

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
B	6		18, 19 & 20
A	7	3	18, 19 & 20

Q div DWG NO. 30211-03×1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN HAKULIN
DSGNR C McG
SUPV
ENGR

COMPT & ACCESS INNER BOTTOM & TOP OF INNER BOTTOM

APPROVED DATE
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-1-1	H

SCALE ¼" = 1'-0"
SHEET 1 OF 1

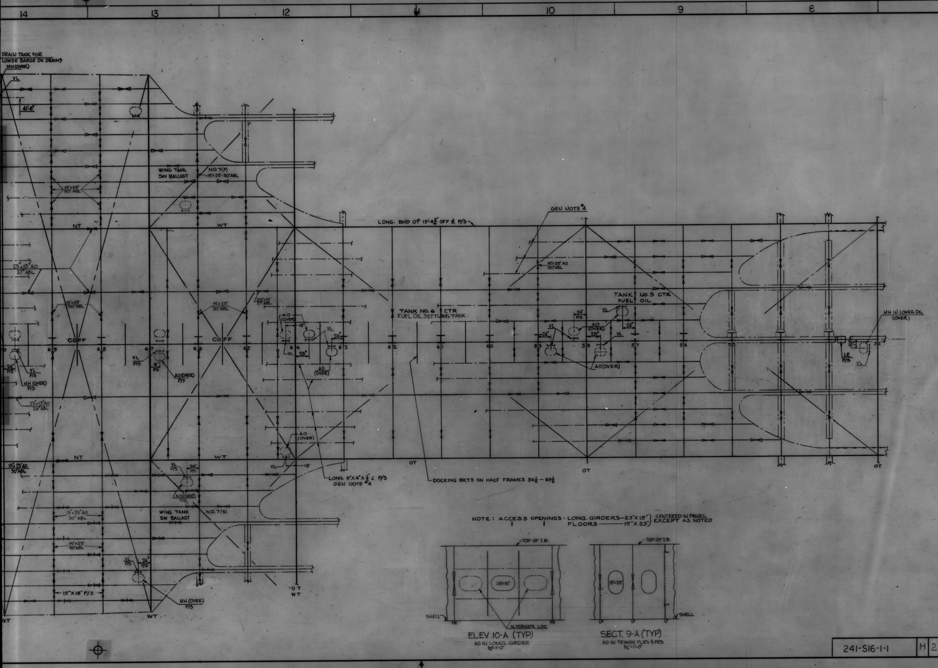
APPROVAL LTR DATED
ABS
USCG MAY 26, 1969
USPHS JUNE 11, 1969

OWNER APPROVAL LTR DATED APRIL 22, 1969

DWG. NO. 30211-03×1

AREA = 56.2 SQ FT

GENERAL DYNAMICS, QUINCY
MA NO. 241-S16-1-1
GD NO. 30211-03x1
NOV, 1973 8X
FRAME 1 ② 3 4



14
13
12
11
10
9
8
7
DRAIN TANK FOR LOWER BARGE DK DRAINS MH (OVER)
VL
41'-8"
WING TANK SW BALLAST
NO. 7 (P)
15" x 25" - 30" ABL
15"x25" 30" ABL
NT
WT
23" x 15" AO 27" ABL
15" x 25" 30" ABL
COFF
LONG. BHD OT 19'-4 3/4" OFF ℄ P/S
GEN NOTE #4
15" x 23" AO 30" ABL
TANK NO. 5 CTR FUEL OIL
TANK NO. 6 CTR FUEL OIL SETTLING TANK
AO (OVER)
18"
24"
28"
P/S
AO (OVER)
MH IN LOWER DK (OVER)
LR P/S
70
69
68
67
66
65
64
63
62
61
60
59
58
57
56
55
52
MH (OVER) P/S
23" x 15" AO 26" ABL
AO (OVER)
15" 23" AO 30" ABL
LONG. 8" X 4" X 1/2" ∠ P/S GEN NOTE #4
DOCKING BKTS ON HALF FRAMES 56 1/2 - 69 1/2
OT
WING TANK SW BALLAST
NO. 7 (S)
AO (OVER) P/S
15" x 23" AO 30" ABL
15" x 25" 30" ABL
15" X 18" P/S
MH (OVER) P/S
OT WT
WT

NOTE: ACCESS OPENINGS - LONG. GIRDERS - 23" X 15" } CENTERED IN PANEL
FLOORS - 15" X 23" } EXCEPT AS NOTED

TOP OF I.B.
23" x 15"
SHELL
FR
ALTERNATE LOC
15" x 25"
L

ELEV 10-A (TYP)
AO IN LONG'L GIRDER
1/2" = 1'-0"

SECT. 9-A (TYP)
AO IN TRANSV FL'RS & FRS
1/2" = 1'-0"

241-S16-1-1 | H | 2

ABBREV

ABT	ABOUT
ABV	ABOVE
AO	ACCESS OPENING
BEL	BELOW
BHD	BULKHEAD
BPMH	BOLTED PLATE MANHOLE
BKTS	BRACKETS
BL	BASE LINE
℄	CENTER LINE
CTR	CENTER
COFF	COFFERDAM
CVK	CENTER LINE VERTICAL KEEL
DIA	DIAMETER
DK	DECK
FR	FRAME
H	HATCH
KNU	KNUCKLE
L	LIMBER HOLE
LR	LADDER RUNG

GENER

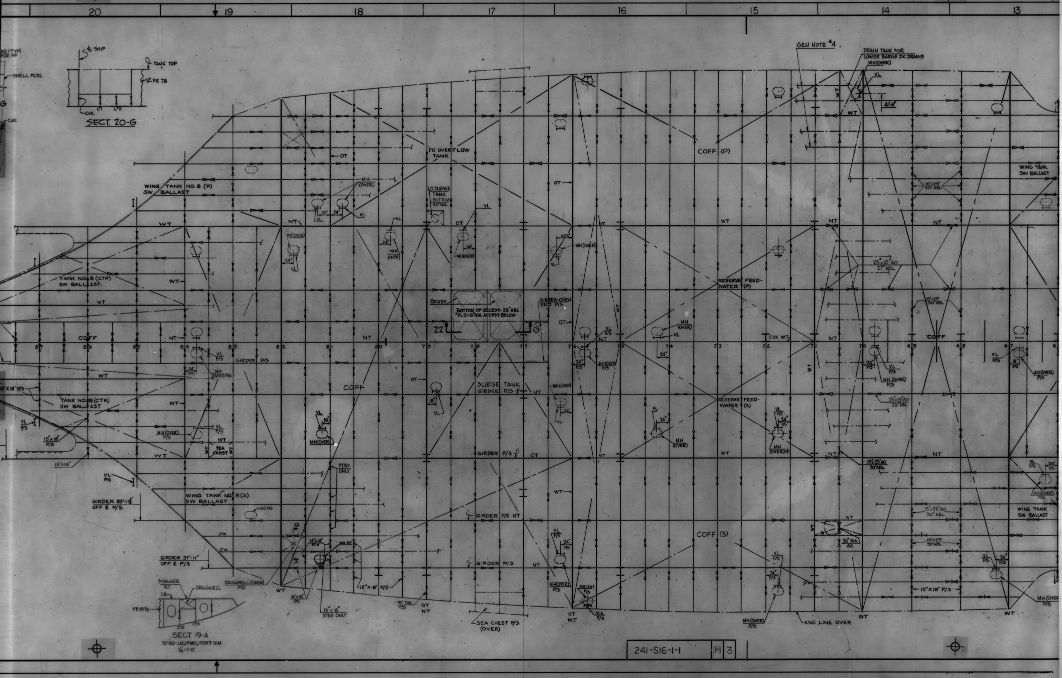
1. LOCATION OF ACCESS OPENINGS NO
ARE TO BE TAKEN FROM STRUCTURA
2. SIZES OF HATCHES & MANHOLES REPR
3. COAMING HEIGHTS ARE FROM TOP OF
4. CONTINUITY OF 8" x 4" x 1/2" ∠ LONG'LS INTE
5. TOP OF INNERBOTTOM TO BE PARALLEL TO
6. RECESSES FORMED OUTBD OF MARGIN PLATE
LIGHT WEIGHT CEMENTING MIXTURE & TREATE
EXCEPT AS NOTED OTHERWISE.

RESERV

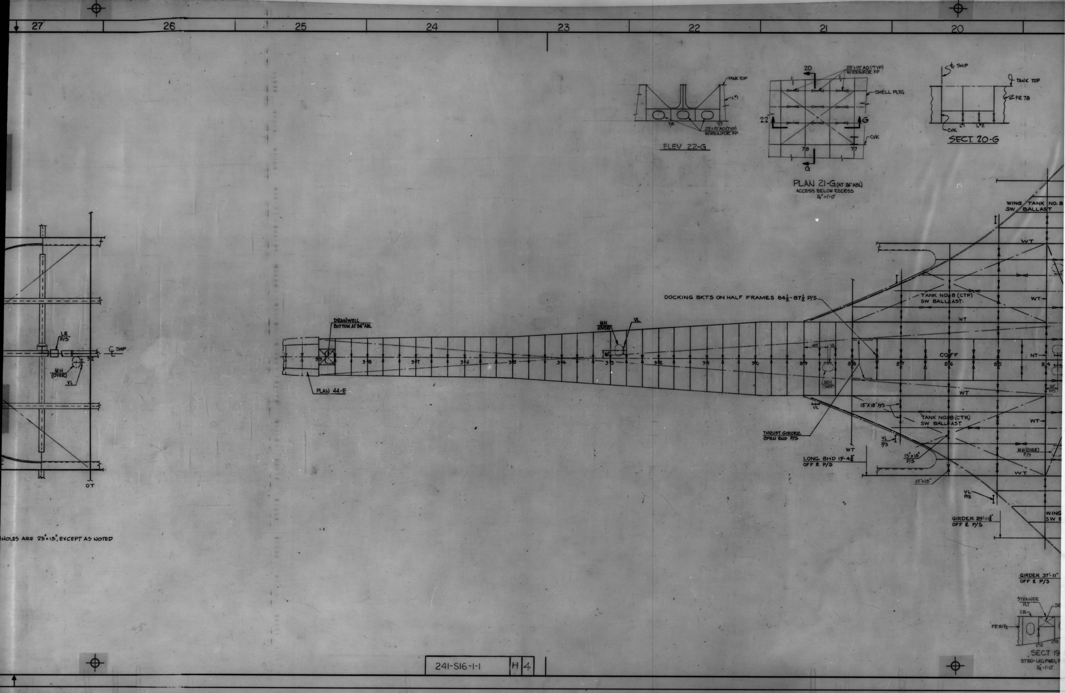
~~1. LOCATION OF ALL AO & MH THRU TANK~~
~~OF MACHINERY SPACES.~~
~~2. LOCATIONS OF ALL PILLARS & STAN.~~
~~3. RESERVED SPACE FOR STABILIZER~~
~~4. RECESS IN TANK TOP FRS 77-78 1/2 P PEND~~
~~5. INNER BOTTOM FRS 70-70 1/2 OST LONG'L~~
~~PENDING PIPING DEVELOPMENT.~~
~~6. TANK TOP IN WAY OF SHAFT ALLEY BHD~~
~~7. ALL MH'S, AO'S, VL'S & LR'S TO POTABLE~~
~~STRUCTURAL DESIGN DEVELOPMENT.~~
~~8. INDICATION OF REDUCTION GEAR FDN~~
~~9. ALL MH, AO IN TANK TOP, FLOORS & LONG'~~
~~FR 34 1/2 TO 71 PENDING RESOLUTION OF~~

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-S16-1-1 GD NO. 30211-03×1 FRAME 1 2 ③ 4


20
19
18
17
16
15
14
13
SECT. 20-G
℄ SHIP
TANK TOP
FR 78
SHELL PLTG
CVK
GEN NOTE #4
DRAIN TANK FOR LOWER BARGE DK DRAINS
MH (OVER)
VL
41'-8"
COFF (P)
FO OVERFLOW TANK
OT
WING TANK NO. 8 (P) SW BALLAST
LO SLUDGE TANK BOTTOM 48" ABL
WING TANK SW BALLAST
15"×23" 30" ABL
WT
NT
TANK NO. 8 (CTR) SW BALLAST
23"×15" AO 27" ABL
RESERVE FEED-WATER (P)
RECESS
BOTTOM OF RECESS - 25" ABL *PL 21-G FOR ACCESS BELOW
GIRDER-OPEN END P/S
22
G
COFF
CVK WT
GIRDER P/S
SLUDGE TANK GIRDER P/S ℄
TANK NO. 8 (CTR) SW BALLAST
15"×18" P/S
RESERVE FEED-WATER (S)
23"×15" AO 26" ABL
SEA CHEST
MH (OVER)
AO (OVER) P/S
GIRDER P/S ℄
15"×23" AO 30" ABL
STBD ONLY
15"×18"
WING TANK NO. 8 (S) SW BALLAST
GIRDER 29'-11½" OFF ℄ P/S
AO P/S
℄ GIRDER P/S NT
15"×23" AO 30" ABL
WING TANK SW BALLAST
COFF (S)
20" DIA AO
15"×23" 30" ABL
GIRDER 37'-11" OFF ℄ P/S
℄ GIRDER P/S
15"×18" P/S
15"×15" P/S
15"×18" STBD ONLY
15" DIA P/S
STRAINER PLT
I.B.
DRAINWELL
DRAINWELL (OVER) P/S
FR 81½
SECT 19-A
STBD-LKG FWD, PORT SIM
¼"-1'-0"
SEA CHEST P/S (OVER)
OT WT
V.L. P/S
MH (OVER) P/S
KNU LINE OVER
15"×18" P/S
241-S16-1-1
H 3

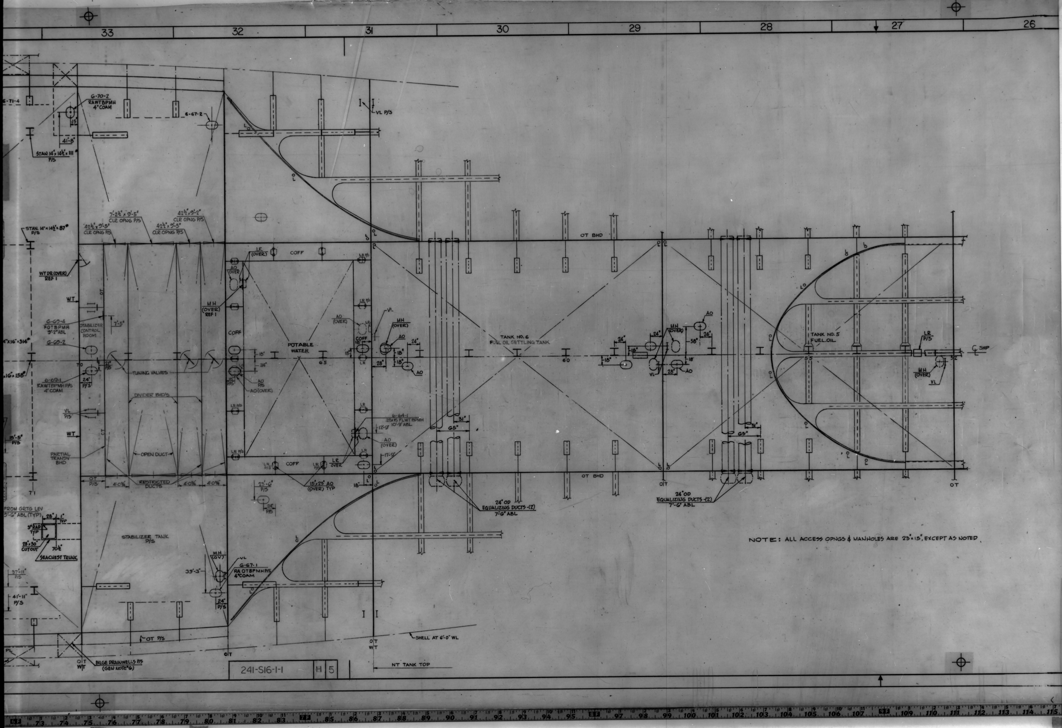
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S16-1-1 GD NO. 30211-03×1 FRAME 1 2 3 ④


27
26
25
24
23
22
21
20
TANK TOP
L#1
78
77
23"×15" AO (TYP) W/REINFOR. FP
ELEV 22-G
20
23"×15" AO (TYP) W/REINFOR. FP
SHELL PLTG
22
G
CVK
78
77
G
PLAN 21-G (AT 24" ABL)
ACCESS BELOW RECESS
¼" = 1'-0"
℄ SHIP
TANK TOP
FR 78
CVK
L#1
L#2
SECT. 20-G
WING TANK NO. 8
SW BALLAST
WT
DOCKING BKTS ON HALF FRAMES 84½-87½ P/S
TANK NO. 8 (CTR)
SW BALLAST
WT
LR
P/S
℄ SHIP
52
MH
(OVER)
VL
DRAINWELL
BOTTOM AT 54" ABL
99
98
97
96
95
94
93
92
91
90
89
88
87
86
85
84
MH
(OVER)
VL
48"
VL
COFF
NT
MH
(OVER)
24"
P/S
PLAN 44-E
WT
15"×18" P/S
TANK NO. 8 (CTR)
SW BALLAST
WT
VL
THRUST GIRDER
OPEN END P/S
VL
P/S
WT
15"×18"
P/S
MH (OVER)
P/S
LONG. BHD 19'-4¾"
OFF ℄ P/S
15"×18"
WT
VL
P/S
OT
WING
SW B
GIRDER 29'-11¾"
OFF ℄ P/S
HOLES ARE 23"×15", EXCEPT AS NOTED
GIRDER 37'-11"
OFF ℄ P/S
STRAINER
PLT
DR
I.B.
FR 81½
L#12
L#13
SECT 19
STBD-LKG FWD,
¼" - 1'-0"
241-S16-1-1
H
4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-S16-1-1 GD NO. 30211-03×1 FRAME 1 2 3 4

⑤ 6 7 8


33
32
31
30
29
28
27
26
25
G-71-4
G-70-2 RAWTBPMH 4" COAM
15
41'-8"
STAN 14"x14½"x111# P/S
6-67-2
VL P/S
7'-2½"x9'-5" CLR OPNG P/S
42½"x9'-2" CLR OPNG P/S
42½"x9'-5" CLR OPNG P/S
42½"x9'-5" CLR OPNG P/S
STAN 14"x14½"x87# P/S
WT DR (OVER) REF 1
WT
G-69-4 FOTBPMH 9'-2" ABL
STABILIZER CONTROL ROOM
7'-5"
G-69-2
G-69-1 RAWTBPMH P/S 4" COAM
TUNING VALVES
DIVIDER BHD'S
OPEN DUCT
PARTIAL TRANSV BHD
RESTRICTED DUCTS
4'-0¾"
OT BHD
COFF
MH (OVER) REF 1
AO (OVER)
LR (OVER)
POTABLE WATER
TANK NO. 6 FUEL OIL SETTLING TANK
TANK NO. 5 FUEL OIL
℄ SHIP
6-64-1 23x15 FLWTBPMH 10'-9" ABL
15"x23" AO (OVER) TYP
24" OD EQUALIZING DUCTS-(2) 7'-6" ABL
NOTE: ALL ACCESS OPNGS & MANHOLES ARE 23"x15", EXCEPT AS NOTED
STABILIZER TANK P/S
FROM GRTG LEV 5'-6" ABL (TYP)
3" RAD TYP
28"x30" CUTOUT
SEACHEST TRUNK
G-67-1 RA OTBPMH P/S 4" COAM
39'-3"
SHELL AT 6'-0" WL
OT P/S
BILGE DRAINWELLS P/S (GEN NOTE "G")
NT TANK TOP
241-S16-1-1
H 5

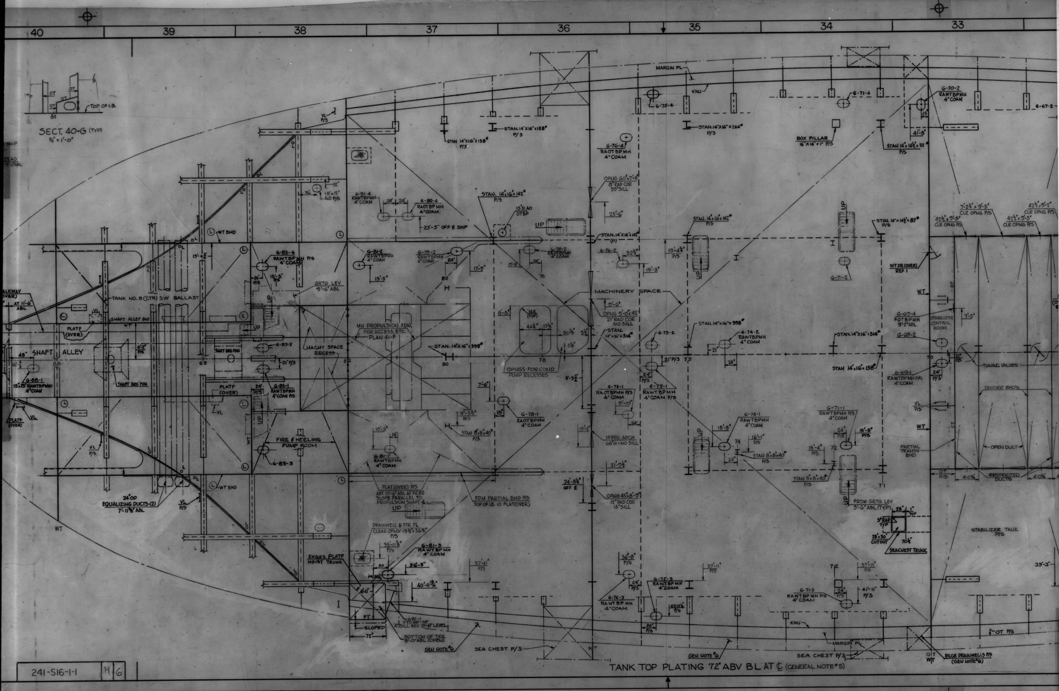
GENERAL DYNAMICS, QUINCY

MA NO. 241-S16-1-1

NOV, 1973 8X

GD NO. 30211-03x1

FRAME 1 2 3 4 5 ⑥ 7 8



40
39
38
37
36
35
34
33
SECT. 40-G (TYP)
¼" = 1'-0"
TOP OF I.B.
MARGIN PL
KNU
STAN 14"X16"X158# P/S
STAN. 14"X16"X158#
STAN. 14"X16"X264# P/S
BOX PILLAR 16"X16"X1" P/S
STAN 14"X14½"X111# P/S
6-75-4
6-71-4
6-70-2 RAWTBPMH 4" COAM
6-67-2
6-76-4 RAOTBPMH 4" COAM
OPNG 60"X7'-8" 8" RAD COR 39" SILL
18"X15" AO P/S
6-81-4 RAWTBPMH 4" COAM
6-80-4 RAOTBPMH 4" COAM
23'-5" OFF ℄ SHIP
STAN. 14"X16"X142# P/S
15" D.AO OTBP
STAN. 14"X16"X142# (P)
STAN. 14"X16"X142#
STAN 14"X14½"X87# P/S
WT BHD
6-83-4 RAWTBPMH P/S 4" COAM
6-81-2 RAWTBPMH 4" COAM
6-79-2 RAWTBPMH 4" COAM
6-78-2 RAWTBPMH 4" COAM
6-76-2
6-71-2
WT DR (OVER) REF 1
GRTG LEV 3'-6" ABL
TANK NO. 8 (CTR) SW BALLAST
MACHINERY SPACE
ALKWAY (OVER)
AT 11'-6" ABL
SHAFT ALLEY BHD
PLATF (OVER)
48" SHAFT ALLEY
MN PROPULSION FDN. FOR ACCESS, ETC. PLAN 41-F
MACHY SPACE RECESS
STAN. 14"X16"X398#
OPNG 9'-0"X42" 21" RAD COR NO SILL
STAN. 14"X16"X314#
STAN. 14"X16"X398#
6-74-2 RAWTBPMH 4" COAM
STAN. 14"X16"X314#
6-69-4 FOTBPMH 9'-2" ABL
STABILIZER CONTROL ROOM
6-69-2
SHAFT BRG FDN
6-83-2
6-75-2
STAN 14"X16"X158#
6-69-1 RAWTBPMH 4" COAM
TUNING VALVES
6-88-1 15"X23" RAWTBPMH 4" COAM
PLATF (OVER)
6-83-1 RAWTBPMH 4" COAM P/S
OPNGS FOR COND PUMP RECESSES
6-76-1 RAOTBPMH P/S 4" COAM
6-75-1 RAWTBPMH 4" COAM P/S
DIVIDER BHD'S
6-74-1 RAWTBPMH 4" COAM
6-71-1 RAWTBPMH P/S 4" COAM
6-78-1 RAOTBPMH 4" COAM
STAN 8"X8"X40# P/S
FIRE & HEELING PUMP ROOM
6-81-1 RAWTBPMH 4" COAM
6-83-3
IRREG ARCH 68"H - NO SILL
STAN 8"X8"X40# P/S
PARTIAL TRANSV BHD
OPEN DUCT
RESTRICTED DUCTS
24'-8¾" OFF ℄
OPNG 45"X8'-9" 12" RAD COR 15" SILL
24" OD EQUALIZING DUCTS-(2) 7'-11⅜" ABL
WT BHD
FLAT (OVER) P/S ABT 13'-6" ABL AT FR 82 SLOPE PARALLEL TO PROPULSION SHAFT ℄
FDN PARTIAL BHD P/S TOP OF I.B. 10 FLAT (OVER)
FROM GRTG LEV 3'-6" ABL (TYP)
28"X30" CUTOUT
SEACHEST TRUNK
STABILIZER TANK P/S
DRAINWELL & STR. PL CLEAR OPNG 19½"X36½" P/S
ENGRS PLATF HOIST TRUNK
6-81-3 RAWTBPMH 4" COAM
6-76-3 RAWTBPMH 4" COAM
6-75-3 RAWTBPMH 4" COAM
6-71-3 RAWTBPMH P/S 4" COAM
6-81-1 FTD 48"X78" 4" SILL ABV 3'-6" LEVEL
BOTTOM OF TNK 8'-0" ABL (OPEN)
SLOPED
GEN NOTE #6
SEA CHEST P/S
GEN NOTE #6
SEA CHEST P/S
MARGIN PL
KNU
BILGE DRAINWELLS P/S (GEN NOTE #6)
OT P/S
TANK TOP PLATING 72" ABV BL AT ℄ (GENERAL NOTE #5)
241-S16-1-1 H 6

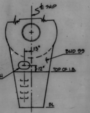
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S16-1-1 GD NO. 30211-03X1 FRAME 1 2 3 4 5 6 7 8

…ONS …PTION	Q DIV DATE	Q DIV APPD	MA DATE	MA APPD	OWNER DATE	OWNER APPD
…F" APPROVED BY JJ …FILE 5589/S16/JUM- …DATED 19 NOV, 1970	TC [illegible]	3/12/71			12 Mar 1971	WDT
…F" APPROVED BY USCG LTR 5940 GENERAL DYNAMICS DATED …70						
…0. ADDED 36"FWD FR83 & 12" INBD LONGL #11 P/S. …CTR F.O." CHGD TO "TANK #6 CTR FUEL OIL SETTLING … RUNGS ADDED IN OPENINGS ABOVE I.B. IN POTABLE …ANK COFFERDAM. …LATURE "STABILIZER CONTROL ROOM" ADDED …6934-70. …URCE: ITEM #3 ADDED TO SUIT AEA-S-0280. ITEM #4 TO SUIT I.W.W. I.R.M DATED 1-19-71. ITEM #5 TO SUIT AEA'S S-0365 & S-0379. ITEM #6 DES CORR						
…G" APPD BY JJ HENRY …R.M. S-0273 MAR 12, 1971 …G" APPD BY USCG LTR …DYN 18-20, 30 MARCH, 1971. …MH #6-81-3, 6-75-3 & 6-75-4 ADDED IN INNER-…OP & INDICATED (OV) IN INNER BOTTOM. …D MH (OV) & VERTICAL LAD. IN INNER BOTTOM TOP …, 36'-7 OFF ℄ (S). …RCE: ITEM 3 INCORP AEA-S-0565. ITEM 4 TO SUIT AEA-S-0555.	VDG FE	5/11/71			15 JUL 1971	

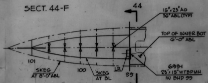
REVISION 'C' CONT.

Panel	Rev	Description
44	C	14. ASSIGNED NO. G-99-1 TO WTBPMH INDICATED IN PLAN 44-E & SECT. 44-F.
38-41		15. FR 81-94 TOP OF INNER BOTTOM: TRACE OF SHELL "AT 6'-0" WL REVISED.
32 37		16. AO LOC 54" FWD FR 67, 20'-9" OFF ℄ P. RELOC TO 24" AFT 66, 23'-6" OFF ℄ P. AO LOC 24" FWD OF FR 82, 17'-9" OFF ℄ RELOC TO 16" AFT 81, 15'-3" OFF ℄ S.
32 37		17. AO IN TOP OF IB LOC 18" FWD OF FR 67, 17'-9" OFF ℄ S & AO IN LONG'L GIRD #7 BET FR 81-81½ P. ELIMINATED AO IN LONG'L GIRD #7 S BET FR 81-81½ RELOC TO 24" FWD FR 80.
34		18. MH LOC 24" FWD OF FR 72, 41'-11" OFF ℄ P/S REASSIGNED 6-71-4 & 6-71-3 RESP.
36		19. MH 6-76-2 RELOC FROM 24" AFT FR 76, 21' OFF ℄ TO 32½" AFT OF FR 76, 15'-3" OFF ℄. MH 6-76-1 RELOC FROM 24" AFT FR 76, 21' OFF ℄ TO 24" AFT FR 76, 10'-9" OFF ℄.
38,39 27,28 31,32		20. INDIC 15" DIA DRAIN HOLES P/S ABT 18" FWD FR 85 & 24" OUTBD OF LONG'L BHD, AND 4" DIA DRAIN HOLES ABT FR 54-56, 64-67 & 83-86 P/S IN TOP OF I B.
8-18 34-37 7		21. FR 53-82, INDICATED STAN BACKING STRUCT BELOW TOP OF I B. ADDED OFF ℄ DIMENSIONS TO STAN IN MACHY SPACE. RELOC BOX PILLAR AT FR 72 P/S. RELEASED RESERVATION #2.
18,20 21,22 36		22. MODIFIED OPNGS IN TOP OF I B & DEPTH OF RECESSES IN INNER BOTTOM FOR COND PUMPS. ADDED PLAN 21-G, & ELEV 22-G. CHANGED SECT. 20-G. RELEASED RESERV #4.
37		23. FR 77: DIMENSIONED OFF ℄ LOC OF OPNGS IN BHD 77 P/S CORR COR RAD & SIZE DATA. INDICATED IRREG ARCH OUTBD OF STAN AT 8'-9⅜" OFF ℄ S.
34 7		24. REVISED PLAN VIEW TITLE "TANK TOP……ABV BL" TO READ "TANK TOP……BL AT ℄ (GENERAL NOTE #5)". ADDED GEN NOTE #5.
36 37,38 40,41 7		25. INDICATED OUTLINE OF MAIN PROPULSION FDN. ADDED PLAN 41-F & SECT. 40-G FOR ACCESS THRU FDN STRUCT & UNDER LO SUMP. CHANGED EXISTING MH No. G-80-2 TO G-80-4 & ASSIGNED NOS. G-80-1, G-80-2 TO FOTBPMH IN OUTBD BOUNDARIES OF LO SUMP. MODIFIED FDN PARTIAL BHD-GIRDER FR 78-82 P/S. RELEASED RES # 8.
32,33 7		26. FR 67-70 IN STABILIZER TANK: ADDED OT BHD AT FR 69½ & DUCT DIVIDER BHDS AT FR 67½, 68 & 69 BET LONG. BHD 19'-4⅜" OFF ℄ P/S. INDICATED DUCT OPNGS IN LONG. BHDS P/S; VERT LADDERS FWD OF BHD 70 P/S & CHANGED LONG. BHD FR 69½-70 FROM WT TO OT. RELEASED RESERV #3.
34 TO 42		27. INCLINED LADDERS FROM 9'-6" GRTG LEVEL INDICATED ABT FR 72, 75 P/S, 77P, 80S & 83-84 P/S. WALKWAY IN SHAFT ALLEY SHOWN FR 84-94 P. DELINEATION OF TRANSV BHD 88 & 94 CORR IN WAY OF SHAFT ALLEY. SOURCE: ITEM 16,17 USCG LTR 5940/GEN DYN 18-20 OF 17 DEC 1969 ITEM 18,19,20 JJ HENRY LTR 5589/S16/AHS-430-69 OF 1 DEC 1969 4,6,14,19,20,21,24 & 25 STRUCT DESIGN DEV 11,12,22,23 & 27 MACHY DES DEV 3,5,7,9,10 & 13 PIP DES DEV 2 & 26 ENGR DES DEV 8,15 & 18 DESIGN CORR
	D	1. PLAN REV "C" APPROVED BY J.J. HENRY LTR FILE 5589/S16 AHS-173-70 DATED APRIL 20, 1970 (RS [illegible] · 4/24/70 · [illegible]) 2. PLAN REV "B & C" APPROVED BY U.S.C.G. LTR 5940 GENERAL DYNAMICS DATED APRIL 13, 1970 SOURCE: ITEMS 1 & 2 REG BODY APPROVAL
7,33 35,37	E	1. GEN NOTE #6 ADDED IN COL. & INDIC AREAS OF APPLIC AT MARGINS FR 70-82 P/S (DDD CHKG · 9/18/70 · F.K.[illegible])
8,27		2. VL AFT BHD 52 DELETED. LR SHOWN ON CVK FWD FR 53 P/S. ADDED "OT" DESIGNATION TO BHD 52 IN PLAN BEL TOP OF I.B.
14		3. 23"x15" AO IN LONG. GIRD #3 (P) BETW FR 69-70 INDIC AT 27" ABL.
18		4. MH (OVER) & VL IN PLAN BEL TOP OF I.B RELOC FROM 24" TO 16" AFT OF FR 81 (S) TO AGREE WITH LOC MH #G-81-1 SHOWN IN PANEL 37.
28,30		5. OUTLINE OF EQUALIZING DUCTS ADDED BETW FR 56-57 & 62-63 IN PLAN AT TOP OF I.B.
33		6. BHD 70 INDIC "WT" BETW LONG. BHDS 19'-4⅜" OFF ℄ P/S ABV TOP OF I.B. WT DOOR (OVER) SHOWN IN BHD 70 (P).
14 34 TO 37		7. FR 70-82 INDIC STABILIZER TK SEACHEST & TRK MODIF BETW LONG. 11 & 12, FR 70-71 (S). CORR FWD & INBD BOUNDARIES OF "COFF" FR 70-76 P/S. CHGD WEIGHTS OF PILLARS & STAN TO AGREE WITH STRUCT DES & DEV. OFF ℄ LOC OF MH #6-71-1 & 2 CHGD TO 15'-5". SIZE OF ENGR'S PLATF HOIST TRK INCREASED FROM 71" TO 72".
20,21 39,40		8. FR 82-89 OUTLINE OF EQUALIZER DUCTS ADDED BETW FR 85-86. VL RELOC FROM TANK TOP COAM TO AFT SIDE FR 85 BETW LONG. #8-9 P/S. TOP OF I.B. EXTENDED FROM FR 88 TO 89 OUTBD OF SA BHDS P/S. PROP SHAFT BRG FDN OUTLINE SHOWN ABT FRS 84-85 & 86-87.
25 40 TO 43		9. FR 89-99 OUTLINE OF SHAFT BRG FDN ADDED ABT FR 89-90, 91-92, 94-95 & 96-97. INDIC EQUALIZING DUCTS BETW FRS. 90-91, 94-95 & LINE OF LONG. SA BHDS (OVER) FR 90-94 P/S. DRAIN SUMP SHOWN IN SHAFT ALLEY FWD OF FR 99.
44		10. IN SECT 44-F, LOC OF MH #G-99-1 CHGD FROM 13½" TO 13" OFF ℄.
19,41		11. 15"x23" AO ADDED IN I.B FR 83½ BETW LONG. #6 & 7 (P). CHANGED MH #G-93-2 TO #G-92-2. SOURCE: ITEM 1,3,6,7 (PART) MECH DES & DEV 2,5,8,9,10 & 11 STRUCT DES & DEV 4; 7 & 10 (PART) DES CORR.
	F	1. PLAN REV "E" APPROVED BY J.J. HENRY LTR FILE: 5589/S16/JUM-449-70 DATED OCT. 6, 1970. (VDG [illegible] · 10/[illegible]/70 · [illegible]) 2. PLAN REV "E" APPROVED BY USCG LTR 5940 GENERAL DYNAMICS DATED OCT. 7, 1970.
3 8		3. REF. #2 ADDED. 4. P/S DELETED FROM VERT. LAD. AFT FR 52 (S) & 18" OFF ℄ DIM ADDED.
7		5. LADDER RUNG ADDED IN ABBREVIATION COLUMN. SOURCE: ITEMS 3, 4 & 5 TO SUIT J.J. HENRY LTR FILE: 5589/S16/JUM-449-70 DATED OCTOBER 6, 1970.

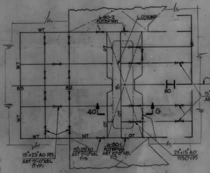
Rev. "F" approved By J.J. Henry Co. Inc. LTR FILE 5589/S16/JUM 526-70 DATED 19 Nov. 1970.


℄ SHIP
13"
BHD 99
6-99-1
FLWTBPMH
12"
TOP OF I.B.
BL

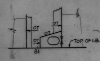
SECT. 44-F


44
F
15"x23" AO
36" ABL (TYP)
TOP OF INNER BOT
6'-0" ABL
6-99-1
23"x15" WTBPMH
IN BHD 99
SKEG
AT 8'-0" ABL
SKEG
AT BL
LR
101
100
99

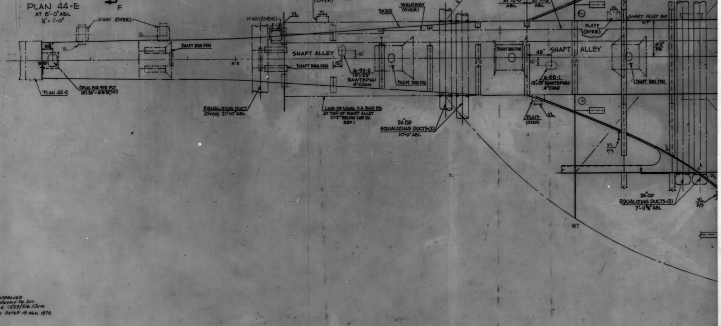
PLAN 44-E
AT 8'-0" ABL
¼" = 1'-0"


6-80-2
FOTBPMH
LO SUMP
WT
NT
OT
83
82
81
80
40
G
℄ SHIP
15"x23" AO
ABT 9'-0" ABL
15"x23" AO P/S
ABT 9'-0" ABL
(TYP)
15"x23" AO
ABT 9'-0" ABL
P/S
6-80-1
FOTBPMH
ABT 10'-8" ABL
P/S
23"x15" AO
P/S (TYP)

PLAN 41-F
AT 7'-0" ABL
¼" = 1'-0"


OT
TOP OF I.B.
81

SECT. 40-G (TYP)
¼" = 1'-0"


H WAY (OVER)
VL
24"
PLAN 44-E
OPNG FOR STR PLT
18"x24" - 6 R (TYP)
SHAFT BRG FDN
95
H WAY (OVER)
VL
EQUALIZING DUCT
(OVER) 21'-10" ABL
PLATF (IN TANK #9 CTR)
(OVER)
REF 1
SHAFT ALLEY
16"
15"
G-92-2
15"x23"
RAWTBPMH
4" COAM
SHAFT BRG FDN
LINE OF LONG. SA BHD P/S
AT TOP OF SHAFT ALLEY
11'-2" BELOW LWR DK
REF 1
SKEG
WALKWAY
(OVER)
SHELL AT 6'-0" WL
24" OD
EQUALIZING DUCTS (2)
10'-6" ABL
90
WALKWAY
(OVER)
AT 12'-0" ABL
AT 11'-6" ABL
SHAFT BRG FDN
48"
SHAFT ALLEY
16"
G-88-1
15"x23" RAWTBPMH
4" COAM
88
PLATF
(OVER)
VL
PLATF
(OVER)
TANK NO. 8 (CTR) SW BALLAST
SHAFT ALLEY BHD
WT
6'-2"
P/S
SHAFT BRG FDN
VL
P/S
24" OD
EQUALIZING DUCTS (2)
7'-11⅝" ABL
VL
P/S
WT

241-S16-1-1 | H | 6

S16-01-01 | H | 7

GENERAL DYNAMICS, QUINCY NOV. 1973 8X
MA NO. 241-S16-1-1 GD NO. 30211-03×1 FRAME 1 2 3 4 5 6 7 ⑧

REVISIONS

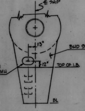
ZONE	LTR	DESCRIPTION	Q DIV DATE	Q DIV APPD	MA DATE	MA APPD	OWNER DATE	OWNER APPD
	G	1 PLAN REV "F" APPROVED BY J.J. HENRY LTR FILE 5589/S16/JUM-526-70 DATED 19 NOV, 1970	[illegible]	3/12/71			12 mar 1971	WDT
		2 PLAN REV "F" APPROVED BY USCG LTR 5940 GENERAL DYNAMICS DATED 2 DEC 1970						
19,38		3. 15"×23" A.O. ADDED 36" FWD FR 83 & 12" INBD LONGL #11 P/S.						
10,11 & 30		4. "TANK #6 CTR F.O." CHGD TO "TANK #6 CTR FUEL OIL SETTLING TANK".						
31,32		5. LADDER RUNGS ADDED IN OPENINGS ABOVE I.B. IN POTABLE WATER TANK COFFERDAM.						
33		6. NOMENCLATURE "STABILIZER CONTROL ROOM" ADDED BET FRS 69 & 34-70. SOURCE: ITEM #3 ADDED TO SUIT AEA-S-0280. ITEM #4 TO SUIT I.W.W. I.R.M DATED 1-13-71. ITEM #5 TO SUIT AEA'S S-0365 & S-0379. ITEM #6 DES CORR.						
	H	1. PLAN REV "G" APPD BY J J HENRY YD REP. I.R.M. S-0273 MAR 12, 1971	VDG FF	5/11/71	F. Roy		15 JUL 1971	[illegible]
		2. PLAN REV "G" APPD BY USCG LTR 5940/GEN DYN 18-20, 30 MARCH, 1971.						
16A-H, 19A 35A-H, 37B		3. RAWTBPMH #6-81-3, 6-75-3 & 6-75-4 ADDED IN INNER-BOTTOM TOP & INDICATED (OV) IN INNER BOTTOM.						
32B		4 INDICATED MH (OV) & VERTICAL LAD. IN INNER BOTTOM TOP AT FR 67, 36'-7 OFF ℄ (S). SOURCE: ITEM 3 INCORP AEA-S-0565. ITEM 4 TO SUIT AEA-S-0555.						

REVISION "C" CONT.

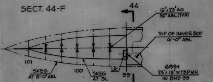
ZONE	LTR	DESCRIPTION
44	C	14. ASSIGNED NO. 6-99-1 TO WTBPMH INDICATED IN PLAN 44-E & SECT. 44-F.
38-41		15. FR 81-94 TOP OF INNER BOTTOM: TRACE OF SHELL "AT 6'-0" WL REVISED.
32 37		16. AO LOC 54" FWD FR 67, 20'-9" OFF ℄ P, RELOC TO 24" AFT 66, 23'-6" OFF ℄ P. AO LOC 24" FWD OF FR 82, 17'-9" OFF ℄ RELOC TO 16" AFT 81, 15'-3" OFF ℄ S.
32 37		17. AO IN TOP OF IB LOC 18" FWD OF FR 67, 17'-9" OFF ℄ S & AO IN LONG'L GIRD #7 BET FR 81-81½ P. ELIMINATED AO IN LONG'L GIRD #7 S BET FR 81-81½ RELOC TO 24" FWD FR 80.
34		18. MH LOC 24" FWD OF FR 72, 41'-11" OFF ℄ P/S REASSIGNED 6-71-4 & 6-71-3 RESP.
36		19. MH 6-76-2 RELOC FROM 24" AFT FR 76, 21" OFF ℄ TO 32½" AFT OF FR 76, 15'-3" OFF ℄. MH 6-76-1 RELOC FROM 24" AFT FR 76, 21" OFF ℄ TO 24" AFT FR 76, 10'-9" OFF ℄.
38,39 27,28 31,32		20. INDIC 15" DIA DRAIN HOLES P/S ABT 18" FWD FR 85 & 24" OUTBD OF LONG'L BHD, AND 4" DIA DRAIN HOLES ABT FR 54-56, 64-67 & 83-86 P/S IN TOP OF I B.
8-18 34-37 7		21. FR 53-82, INDICATED STAN BACKING STRUCT BELOW TOP OF I B. ADDED OFF ℄ DIMENSIONS TO STAN IN MACHY SPACE. RELOC BOX PILLAR AT FR 72 P/S. RELEASED RESERVATION #2.
18,20 21,22 36		22. MODIFIED OPNGS IN TOP OF I B & DEPTH OF RECESSES IN INNER BOTTOM FOR COND PUMPS. ADDED PLAN 21-G, & ELEV 22-G. CHANGED SECT. 20-G. RELEASED RESERV #4.
37		23. FR 77: DIMENSIONED OFF ℄ LOC OF OPNGS IN BHD 77 P/S CORR COR RAD & SIZE DATA. INDICATED IRREG ARCH OUTBD OF STAN AT 8'-9⅛" OFF ℄ S.
34 7		24. REVISED PLAN VIEW TITLE "TANK TOP ------- ABV BL" TO READ "TANK TOP ---- BL AT ℄ (GENERAL NOTE #5)". ADDED GEN NOTE #5.
36 37,38 40,41 7		25. INDICATED OUTLINE OF MAIN PROPULSION FDN. ADDED PLAN 41-F & SECT. 40-G FOR ACCESS THRU FDN STRUCT & UNDER LO SUMP. CHANGED EXISTING MH No. 6-80-2 TO 6-80-4 & ASSIGNED NOS. 6-80-1, 6-80-2 TO FOTBPMH IN OUTBD BOUNDARIES OF LO SUMP. MODIFIED FDN PARTIAL BHD-GIRDER FR 78-82 P/S. RELEASED RES # 8.
32,33 7		26. FR 67-70 IN STABILIZER TANK: ADDED OT BHD AT FR 69½ & DUCT DIVIDER BHDS AT FR 67½, 68 & 69 BET LONG. BHD 19'-4¾" OFF ℄ P/S. INDICATED DUCT OPNGS IN LONG. BHDS P/S; VERT LADDERS FWD OF BHD 70 P/S & CHANGED LONG. BHD FR 69½-70 FROM WT TO OT. RELEASED RESERV #3.
34 TO 42		27. INCLINED LADDERS FROM 9'-6" GRTG LEVEL INDICATED ABT FR 72, 75 P/S, 77 P, 80 S & 83-84 P/S. WALKWAY IN SHAFT ALLEY SHOWN FR 84-94 P. DELINEATION OF TRANSV BHD 88 & 94 CORR IN WAY OF SHAFT ALLEY. SOURCE: ITEM 16,17 USCG LTR 5940/GEN DYN 18-20 OF 17 DEC 1969 ITEM 18,19,20 JJ HENRY LTR 5589/S16/AHS-430-69 OF 1 DEC 1969 4,6,14,19,20,21,24 & 25 STRUCT DESIGN DEV 11,12,22,23 & 27 MACHY DES DEV 3,5,7,9,10 & 13 PIP DES DEV 2 & 26 ENGR DES DEV 8,15 & 18 DESIGN CORR

ZONE	LTR	DESCRIPTION	Q DIV DATE	Q DIV APPD	MA DATE	MA APPD	OWNER DATE	OWNER APPD
	D	1. PLAN REV "C" APPROVED BY J.J. HENRY LTR FILE 5589/S16 AHS-173-70 DATED APRIL 20, 1970 2. PLAN REV "B & C" APPROVED BY U.S.C.G. LTR 5940 GENERAL DYNAMICS DATED APRIL 13, 1970 SOURCE: ITEMS 1 & 2 REG BODY APPROVAL	[illegible]	4/24/70	Roy			
7,33 35,37	E	1. GEN NOTE #6 ADDED IN COL. & INDIC AREAS OF APPLIC AT MARGINS FR 70-82 P/S	QDB CMG	9/18/70	F. Roy			
8,27		2 VL AFT BHD 52 DELETED. LR SHOWN ON CVK FWD FR 53 P/S. ADDED "OT" DESIGNATION TO BHD 52 IN PLAN BEL TOP OF I.B.						
14		3. 23"×15" AO IN LONG. GIRD #3 (P) BETW FR 69-70 INDIC AT 27" ABL.						
18		4. MH (OVER) & VL IN PLAN BEL TOP OF I.B RELOC FROM 24" TO 16" AFT OF FR 81 (S) TO AGREE WITH LOC MH #6-81-1 SHOWN IN PANEL 37.						
28,30		5. OUTLINE OF EQUALIZING DUCTS ADDED BETW FR 56-57 & 62-63 IN PLAN AT TOP OF I.B.						
33		6. BHD 70 INDIC "WT" BETW LONG. BHDS 19'-4¾" OFF ℄ P/S ABV TOP OF I.B. WT DOOR (OVER) SHOWN IN BHD 70 (P).						
14 34 TO 37		7. FR 70-82 INDIC STABILIZER TK SEACHEST & TRK MODIF BETW LONG. #11 & 12, FR 70-71 (S). CORR FWD & INBD BOUNDARIES OF "COFF" FR 70-76 P/S. CHGD WEIGHTS OF PILLARS & STAN TO AGREE WITH STRUCT DES & DEV. OFF ℄ LOC OF MH #6-71-1 & 2 CHGD TO 15'-5". SIZE OF ENGR'S PLATF HOIST TRK INCREASED FROM 71" TO 72".						
20,21 39,40		8. FR 82-89 OUTLINE OF EQUALIZER DUCTS ADDED BETW FR 85-86. VL RELOC FROM TANK TOP COAM TO AFT SIDE FR 85 BETW LONG. #8-9 P/S. TOP OF I.B. EXTENDED FROM FR 88 TO 89 OUTBD OF SA BHDS P/S. PROP SHAFT BRG FDN OUTLINE SHOWN ABT FRS 84-85 & 86-87.						
25 40 TO 43		9. FR 89-99 OUTLINE OF SHAFT BRG FDN ADDED ABT FR 89-90, 91-92, 94-95 & 96-97. INDIC EQUALIZING DUCTS BETW FRS. 90-91, 94-95 & LINE OF LONG. SA BHDS (OVER) FR 90-94 P/S. DRAIN SUMP SHOWN IN SHAFT ALLEY FWD OF FR 99.						
44		10. IN SECT 44-F, LOC OF MH #6-99-1 CHGD FROM 13½" TO 13" OFF ℄.						
19,41		11. 15"×23" AO ADDED IN I.B FR 83½ BETW LONG. #6 & 7 (P). CHANGED MH #6-93-2 TO #6-92-2. SOURCE: ITEM 1,3,6,7 (PART) MECH DES & DEV 2,5,8,9,10 & 11 STRUCT DES & DEV 4; 7 & 10 (PART) DES CORR.						
	F	1. PLAN REV "E" APPROVED BY J.J. HENRY LTR FILE: 5589/S16/JUM-449-70 DATED OCT. 6, 1970.	[illegible]	10/14/70	F. Roy			
		2. PLAN REV "E" APPROVED BY USCG LTR 5940 GENERAL DYNAMICS DATED OCT. 7, 1970.						
3		3. REF. #2 ADDED.						
8		4. P/S DELETED FROM VERT. LAD. AFT FR 52 (S) & 18" OFF ℄ DIM ADDED.						
7		5. LADDER RUNG ADDED IN ABBREVIATION COLUMN. SOURCE: ITEMS 3,4 & 5 TO SUIT J.J. HENRY LTR FILE: 5589/S16/JUM-449-70 DATED OCTOBER 6, 1970.						

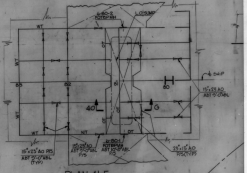
Rev. "F" APPROVED BY J.J. HENRY Co. INC. LTR FILE 5589/S16/JUM 526-70 DATED 19 NOV. 1970


℄ SHIP
BHD 99
13"
12"
TOP OF I.B.
6-99-1
FLWTBPMH
BL

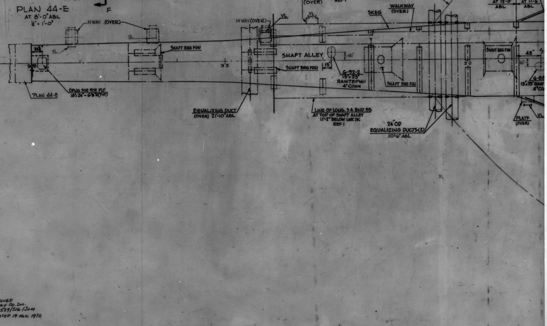
SECT. 44-F


44
15"×23" AO
36" ABL (TYP)
TOP OF INNER BOT
6'-0" ABL
101
SKEG
AT 8'-0" ABL
100
SKEG
AT BL
LR
99
6-99-1
23"×15" WTBPMH
IN BHD 99
F

PLAN 44-E
AT 8'-0" ABL
¼" = 1'-0"


6-80-2
FOTBPMH
LO SUMP
WT
WT
83
82
81
80
OT
OT
OT
OT
NT
WT
WT
℄ SHIP
40
G
15"×23" AO
ABT 9'-0" ABL
15"×23" AO P/S
ABT 9'-0" ABL
(TYP)
15"×23" AO
ABT 9'-0" ABL
P/S
6-80-1
FOTBPMH
ABT 10'-8" ABL
P/S
23"×15" AO
P/S (TYP)

PLAN 41-F
AT 7'-0" ABL
¼" = 1'-0"


H WAY (OVER)
VL
VL
24½"
99
PLAN 44-E
OPNG FOR STR PLT
18"×24" - 6½" R (TYP)
SHAFT BRG FDN
95
H WAY (OVER)
VL
PLATF (IN TANK #9 CTR)
(OVER)
REF 1
VL
SKEG
WALKWAY
(OVER)
SHELL AT 6'-0" WL
WALKWAY
(OVER)
AT 12'-0"
ABL
AT 11'-6"
ABL
SHAFT BRG FDN
SHAFT ALLEY
16"
15"
SHAFT BRG FDN
6-92-2
15"×23"
RAWTBPMH
4" COAM
SHAFT BRG FDN
90
SHAFT BRG FDN
48"
16"
6-88
15"×23" RAW
4" CO
EQUALIZING DUCT
(OVER) 21'-10" ABL
LINE OF LONG. SA BHD P/S
AT TOP OF SHAFT ALLEY
11'-2" BELOW LWR DK
REF 1
24" OD
EQUALIZING DUCTS (2)
10'-6" ABL
PLATF
(OVER)
VL

241-S16-01-01 | H | 7

7 | 6 | 5 | 4 | 3 | 2 | 1

UE OF SCANTLINGS TO AGREE
ED MODE OF ACCESS THRU FLRS.
M BHD 34 TO FWD SIDE OF FR 32 P/S.
C AT CVK FRS 34½-39½ INCL P/S.
P/S CHANGED TO REFLECT STRUCT DEV.
D TO AGREE WITH STRUCT DES & DEV.
5 P/S IN WING TANKS #3. DOCKING
P/S. HORIZ STIF INDIC ON TRANSV
ON BHD 46 & 52 IN WAY OF SEWAGE
STRUCT DEV. HORIZ STIF INDIC ON
KING BRKTS INDIC AT CVK FR 46½-51½ P/S.
55, 56 & 57 IN WING TANK #5 P/S REVISED
G. BHD STIF BRKTS INDIC IN FO TK #5 CTR
ELOC TO AGREE WITH REF 2.
CVK AT FRS 52½-55½ P/S.
DE OF ACCESS REVISED IN WING TANK
RIZ STIF INDIC ON BHD 58 & LONG. BHD
. BHD BRKTS INDIC P/S IN FO TK #6 CTR
V.
TLINGS IN WING TANKS #7 REVISED
. MODE OF ACCESS MODIFIED TO SUIT.
T BTW FR 66-67 IN ACCORD WITH
LOC OF MH 6-66-2 AT 25'-3" ABL.
LONG BHDS P/S CHGD TO INDICATE
ND MEANS OF ACCESS ABOUT "COFF"
LE WATER TANK" & "COFF" BELOW.
Z STIF SHOWN ON BHD 64, 67 & LONG BHD.
SED P/S TO AGREE WITH STRUCT DEV.
R 67-70 CROSS-CONNECTED BY
"STABILIZER TANK P/S". INDIC
FF" BELOW. TOP OF I.B.
67-70 IS DESIGNATED "STABILIZER
PROVIDED FROM MACHY SPACE
IN BHD 70(P). WALKWAY SHOWN
CCESS TO CONTROL GEAR.
ADDED FWD BHD 70 FOR ACCESS
RIZ STIF INDIC ON BHD 70 & LONG. BHD
CT BHD AT FR 69½ BTW LONG. BHDS
T."
TO READ "5.5-71-1". CHGD FR GRTG
C & MODIF "WC" SP AT BHD 70 S.
CL & ASSIGNED EMP NOS 5.5-76-1
RCH IN FR 77 P & BHD 82 AT ℄ IN

BELOW

NFIGURATION OF ENGRS PLATF
5-81-1 "FT". INCR TRK SIZE TO 72"
35½ TO 36" FWD BHD 82. RES. #13 REL.
OF SCANTLINGS IN WING TANK #8 P/S
18" DIA AO DELETED IN WEB FRS IN
LONG #14 P/S. EXTENDED PLATF 18'-9" ABL
AWAY VIEW IN SA TOP IN WAY OF
STIF ON BHD 84, 88 & LONG. BHD P/S.
FRMG & LONG. IN WING TK #9 P/S TO
OF ACCESS THRU BAYS CHGD TO SUIT.
OF FR 89 P/S. INDIC HORIZ STIF
ED BREAK-AWAY VIEW IN SA TOP
PROV LR FOR ACCESS ABT TK BOT P/S.
FRMG & LONG. CHGD IN WING TANK
ES & DEV. AO REVISED TO SUIT. VERT
TIF ON LONG. BHD P/S.
CT REVISED TO CONFORM TO MODIF
F BHD 94, 17'-9" OFF ℄ RELOC TO
VER PLT INDIC.
F ℄ GIRDER & ℄ BHD IN WAY OF
L 49-A" AT ℄. CHGD EQUALIZER
E WITH DES & DEV OF DUCT.
ACHY ABT FR 106. ADDED 42"×36"
FT FR 106 FOR ACCESS & MAINT OF
LWR DK (OVER) FOR ACCESS TO &
PONENTS.
FR 101 P/S TO AGREE WITH REF 2
FROM 16" FWD FR 106 TO 16" FWD
R 107 TO 23"×15" P/S. DELETED AO
" DIA AO AT FR 100½, 101½, 102½
" OFF ℄ P/S.

PANEL 10

| L | 2 |

ABBREVIATIONS

ABL	ABOVE BASE LINE
ABT	ABOUT
ABV	ABOVE
AO	ACCESS OPENING
BEL	BELOW
BHD	BULKHEAD
℄	BASE LINE
BPMH	BOLTED PLATE MANHOLE
BRST HK	BREAST HOOK
CTR	CENTER
DBL	DOUBLE
DIA	DIAMETER
DK	DECK
DR	DOOR
EM	EXPANDED METAL
ENGRS	ENGINEERS
FD	FORCED DRAFT
FP	FORWARD PERPENDICULAR
FR	FRAME
GR	GRAB ROD
HWAY	HATCHWAY
KNU	KNUCKLE
LONGL	LONGITUDINAL
LOC	LOCATION
LR	LADDER RUNG
MH	MAN HOLE
MN	MAIN
NT	NON TIGHT
NOM	NOMENCLATURE
OPNG	OPENING
OT	OIL TIGHT
P	PORT
PLATF	PLATFORM
S	STARBOARD
STAN	STANCHION
STGR	STRINGER
SW	SALT WATER
TYP	TYPICAL
VL	VERTICAL LADDER
WT	WATER TIGHT

GENERAL NOTES

1. LOCATION OF ACCESS OPENINGS NOT OTHERWISE DIMENSIONED SHALL BE TAKEN FROM STRUCTURAL PLANS.
2. SIZES OF ALL HATCHES, MANHOLES, DOORS, ETC, REPRESENT CLEAR OPENING.
3. CLEAR HEADROOM IN ACCOMMODATIONS, WORKING, NAVIGATION SPACES, PASSAGEWAYS, TOILET AND SHOWER SPACES SHALL NOT BE LESS THAN 7'-6". CLEAR HEADROOM UNDER LOCAL POINTS SUCH AS DUCTS, PIPING, LIGHTS, GIRDERS, ETC. SHALL NOT BE LESS THAN 7'-3" IN THE ABOVE SPACES.
4. SILL AND COAMING HEIGHTS ARE FROM TOP OF STEEL DECK TO CLEAR OPENING.
5. EXACT HEIGHTS OF AO ABOVE SHELL ETC ARE SHOWN ON STRUCTURAL PLANS. WHEREVER POSSIBLE AO ARE SO LOCATED THAT THE BOTTOM OF THE AO DOES NOT EXCEED 30" ABOVE SHELL ETC, FOR EASE OF ACCESS & TO REDUCE THE USE OF LADDER RUNGS.

RESERVATIONS

~~1. SIZE & LOCATION OF ACCESS OPNGS IN WEB FRS & FLOORS BET BHD FR 28 & BHD FR 34 PENDING STRUCTURAL DEVELOPMENT.~~
~~2. "RESERVED SPACE FOR STABILIZER" FRS 67-70 P/S PENDING RESOLUTION OF STABILIZER CONFIGURATION.~~
~~3. PILLARS & GIRDER BEL LOWER DK ON ℄ FRS 94-99 PENDING STRUCTURAL DESIGN DEVELOPMENT.~~
~~4. STEERING GEAR ROOM FRS 99-107 & COFFERDAM 107-109 P/S PENDING DESIGN DEVELOPMENT OF STEERING GEAR ARRANGEMENT & COMPT BOUNDARIES.~~
~~5. STERN CONFIGURATION AFT OF FR 125 P/S PENDING DEVELOPMENT OF ELEVATOR GUIDANCE SYSTEM & BARGE FENDERING.~~
~~6. SIZE & LOCATION OF MH & ACCESS TO POTABLE WATER TANK & COFFERDAM, FRS 64-67, PENDING STRUCTURAL DESIGN DEVELOPMENT.~~
~~7. ACCESS TO FORCED DRAFT FAN ROOM PENDING ACTION ON RFI #50.~~
~~8. LOCATION & SIZE OF HWAY & ACCESS LADDER TO BOW THRUSTER ROOM PENDING EQUIPMENT DEVELOPMENT & FIRM ARR OF THRUSTER SPACE.~~
~~9. SHAFT ALLEY LONGL BHDS, FRS 84-94 P/S PENDING STRUCTURAL DESIGN DEVELOPMENT.~~
~~10. PLATF & ACCESS IN FIRE & HEELING PUMP RM FR 83 PENDING DEVELOPMENT OF PUMP RM.~~
~~11. SIZE AND LOCATION OF MH & ACCESS THRU FLOORS PENDING STRUCTURAL DEVELOPMENT.~~
~~12. INDICATION OF ELEVATOR GUIDANCE SYSTEM & BARGE FENDERING PENDING DESIGN DEVELOPMENT.~~
~~13. ENGINEER'S PLATFORM HOIST PENDING DESIGN DEVELOPMENT.~~
~~14. CANTILEVER STRUCTURES & LOWER DK AFT FR 107½ PENDING STRUCTURAL DEVELOPMENT.~~

ZONE	LTR	REVISIONS — DESCRIPTION	Q DIV DATE	Q DIV APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
26, 27, 28	B	13. FR 64-70 TRANSV SHELL FRMG ADDED AT FR 65 & 66. ACCESS TO BAYS INDICATED BY MEANS OF AO IN STRUCT. NOTE "TOP OF I.B. (6'-0" ABL) - REF #1 FOR ACCESS BELOW". OPNGS INDICATED IN LOWER DK BET FR 67-70 IN WINGS DELETED P/S. OUTLINE OF DRAIN-WELLS (OVER) ADDED FWD BHD 70 P/S.						
29, 30 31, 32		14. DBLE DOOR #5.5-71-1 FOR FD FAN RM ADDED, RESERVATION #7 RELEASED. OPNGS INDICATED IN 18'-0" FLAT FOR BOILERS, MAIN ENGINE, CONDENSER, ETC. FIRESTA #1 & #2 SHOWN AT FR 75 (P) FR 80½ (S) RESP. CUT OUT AREAS FOR MACHY REMOVAL SHOWN OUTBD BET FR 76-77 (P) & FR 79-80 (S). MN ELECT SWBD RELOC TRANSV BET FR 78-79 (S). INBD & FWD E.M. BOUNDARIES OF ENGR'S STORES CHANGED FROM 39'-11" TO 38'-2" & FROM FR 80 TO 7½" AFT FR 80 (P) RESP. IL FOR ACCESS UP TO LOWER DK FROM 18'-0" FLAT INDICATED OUTBD BET FR 77-78½ (P) & BET FR 75-76 (S). OPNG'S IN 18'-0" FLAT FOR IL FOR ACCESS DOWN TO 9'-6" LEVEL RELOC TO SUIT MACHY ARR. E.M. ENCLOSURE FOR MN ELECT WORKSHOP RELOC FROM FR 80-81 (S) TO FR 75-77 (S) AT SHELL.						
33		15. FR 81-84 PLATF AT 18'-9" SHOWN FWD & AFT OF FR 83 IN WAY OF MN ENGINE & FIRE & HEELING PUMP RM. 9'-6" LEVEL SHOWN IN PUMP RM P/S WITH INCLINED & VERT LADDERS FOR ACCESS TO SUIT MACHY ARR. RESV. 10 RELEASED.						
34-39		16. FR 84-99: TRANSV SHELL FRMG & LONG'L DEEP GIRD ADDED P/S. ACCESS TO ALL BAYS PROVIDED BY MEANS OF AO IN STRUCT OR LR WHERE INDICATED. VL & PLATF OUTBD SHAFT ALLEY BHD AFT OF FR 84 & 88 (P) RELOC TO 24" FWD FR 85 & 89 RESP 18" OUTBD LONG'L BHD. RESV #9 RELEASED. FR 94-99 TRANSV SHELL FRMG & LONG'L GIRDERS ADDED P/S. INDICATION OF VOID BELOW NT FLAT MODIF TO SHOW LOC OF EQUALIZING DUCT BET FR 94-95 P/S. AO 45" AFT OF 94 RELOC FROM 15'-0" TO 17'-9". HWAY AFT OF 94 (S) RELOC TO 16¼" AFT 94, 51" OFF ℄ (P). 24"×30" HWAY ADDED 48¾" AFT FR 96 & 16¼" AFT FR 98, 51" OFF ℄ (P). DR #5.5-99-2: CHANGED SWING TO FWD & OUTBD & SIZE TO 30"×69" WITH 9½" SILL. RESERV #3 RELEASED.						
38-41		17. FR 85 TO 87, 89 TO 93 & 95 TO 98 14×16 PILLARS RELOC ON ℄ TO STBD TO SUIT STRUCT DEVELOPMENT.						
39-42 7		18. FR 99-109; STEER'G GEAR CONTROL RM SHOWN FROM FR 99-100⅔ BET LONG'L GIRD 11'-5½" OFF ℄ P/S. LONG'L GIRD ADDED 29'-11¾" OFF ℄ P/S, BHD FR 99-109. TRACE OF SKEG AT LOWER DK ADDED FR 100⅔-103½. ACCESS TO ALL BAYS THROUGHOUT PROVIDED BY MEANS OF AO IN STRUCT OR LR WHERE INDICATED. GEN NOTE #5 ADDED. VL & AO (OVER) 41'-5" OFF ℄ AFT FR 99 RELOC TO AFT OF 99 16 P/S. VL & AO (OVER) 49'-0" OFF ℄ FWD FR 106 RELOC TO BET FR 105-105½ P/S. RECESS IN LOWER DK FR 107½ ABT 16'-0" OFF ℄ P/S DELETED. RECESS INDICATED AT FR 108 P/S FOR MAKE-UP RAIL ASSY. RESERVATION #4 RELEASED.						
42-48		19. CANTILEVER STRUCTURES P/S, FR SPACING REV AFT FR 109. RESERVATION #12 DELETED. RESERVATION #14 ADDED.						
48-51		20. EL 49-A, EL 51-C, PLAN 49-C, PLAN 49-D & SECT 51-D ADDED.						
28		21. BHD 67 & 70 CHG'D FROM "WT" TO "OT."						
19 20 23 26		22. EQUALIZING DUCTS INDICATED BETWEEN PORT & STBD WING TANKS IN WAY OF FO TANKS #3, 4, 5 & 6 CTR LOC AFT. FR 45-46 FOR WING TANK NO. 3 P/S. 48-49 " " " " 4 P/S 56-57 " " " " 5 P/S 62-63 " " " " 6 P/S						
17 27 34 36 37 39		23. EQUALIZING DUCTS INDICATED BET P & S WING TANKS LOC ABT FR 39-40 FOR WING TANK NO. 2 P/S. 65-66 " " " " 7 P/S 85-86 " " " " 8 P/S 90-91 " " " " 9 P/S 94-95 " " " " 10 P/S 99-100 " 11 P/S						
		24. ENGR'S PLATFM HOIST & TRUNK MODIFIED & RELOCATED RESERV #13 ADDED. SOURCE: ITEM 14 TO SUIT J.J. HENRY LTR 5589/516/AHS 273-69 OF AUGUST 18, 1969. ITEMS 3-13, 15-20, 23 & 24 DESIGN DEV. ITEM 21 GDCC #6, ITEM 22 GDCC #5000.						
	C	1. PLAN REV "B" APPD BY J.J. HENRY LTR 5589/516/AHS-15-70 OF 14 JAN 1970.	CMCG					
		2. PLAN REV "B" APPD BY USCG LTR 5940/GEN DYNAMICS 18-20 OF 30 JAN 1970.						
3		3. N T BHD AT FR 5. RELOC 24" AFT TO FR 6.						
9-11 7		4. STEM - FR 22. OUTLINE OF SCANTLINGS REVISED TO AGREE WITH STRUCT DEV. VL AFT OF FR 20 S RELOC AFT TO SUIT MOD WEB AT FR 22. FORE PEAK TANK UPPER BOUNDARY NOTE ADDED. LR & GR INDICATED.						
11		5. IN "PLAN 21'-0" ABL" NT FLAT (OVER) INDIC. AO (OVER) & VL RELOC FROM P TO S.						
11-13		6. BHD 22 - BHD 28. VL AFT OF FR 23½, 60" OFF ℄ RELOC AFT TO FWD SIDE BHD 24. NT FLAT & WALKWAY AT 18'-0" ABL ADDED IN BOW THRUSTER ROOM. INDIC OF 8'-0" FLAT DELETED. OUTLINE OF LONG. & BHD SCANTLINGS ADDED. "PLAN AT 7'-0" ABL" REVISED TO SHOW ACCESS BELOW MODIF FLAT AT 8'-0" ABL FR 26 TO FR 28. BHD 24 MADE "NT" BLW LWR DK.						
11		7. ADDED DESIGNATION "CD" TO SPACE BELOW CHAIN LOCKER.						

REV "C" CONT IN PANEL 8

ZONE	LTR	REVISIONS — DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
34 TO 36 E & D	A	9. VL AFT FR 84, 88 & FWD FR 88 & 94 RELOCATED & PLATFORMS ADDED TO SUIT STRUCTURE.						
39C TO 39F		10. KNU LINE OF NT FLAT RELOC FROM FR 98 TO 12" AFT FR 98 TO SUIT STRUCTURAL DEVELOPMENT.						
42A & H		11. VL FWD FR 106 RELOC FROM 44'-0" TO 49'-0" OFF ℄ P/S & VL AFT FR 107 46'-6" OFF ℄ P/S ADDED.						
42		12. FLOOR RELOC FROM 48" TO 36" FWD FR 107 TO SUIT STRUCTURAL DEVELOPMENT.						
VARIOUS		13. PILLARS FROM FR 35 AFT MODIFIED EXCEPT PILLAR ON FR 80.						
VARIOUS		14. STIFF ADDED TO BHD 46, 58, 64, 67, 70, 82, 88 & 94 TO SUIT STRUCTURAL DEVELOPMENT.						
31B, 31G		15. DEEP WEB INDICATED FR 77 P/S TO IMPROVE RACKING STRENGTH.						
34 TO 36 E & D		16. STIFF. ADDED TO OUTBD SIDE OF SHAFT ALLEY BHD P/S FROM FR 85 TO 92 TO SUIT STRUCTURAL DEVELOPMENT.						
37-39D		17. NT BHD & ARCH ADDED ON ℄ SHIP BET. FR 94-99 TO SUIT STRUCTURAL DEVELOPMENT.						
1A		18. MARITIME ADM DWG NO. ADDED.						
7E		19. GEN NOTE #1 REVISED.						
9D		20. CLASSIFIED BHD FR 5.						
11D		21. RELOC VL ABT FR 20 FROM 56" TO 24" OFF ℄ S & ADDED 15"×23" A.O. 12" FWD FR 20 & 18" OFF ℄ S.						
37C, 39C		22. ADDED A.O. THRU NT FLAT AFT FR 94 & FWD FR 99 & INDICATED ACCESS THRU FLOORS IN VOID BELOW N.T. FLAT.						
		23. RES #5 DELETED & RES #12 ADDED TO SUIT GEN DYN (CC #8) ELIM OF STERN HOOK						
7A		24. RESERVATION #10 & 11 ADDED.						
37D		25. RELOC & MODIFIED HWAY FROM 30" AFT FR 94 & 4'-3" OFF ℄ S TO 16" AFT FR 94 & 51" OFF ℄ S & SIZE CHGD FROM 30"×30" TO 24"×30" TO SUIT STRUCTURAL DEV.						
11D		26. ADDED VL'S AFT FR 22 & FWD FR 24 SOURCE: ITEM 18 TO SUIT J.J. HENRY APPROVAL LTR OF APRIL 29, 1969 FILE 5589/516/AHS-115-69. ITEM 4 THRU 12 & 16, 17 & 19 THRU 26 DESIGN DEVELOPMENT. ITEM 13, 14, 15 IN ACCORDANCE WITH TWX-NEMEC TO GEN DYN MARAD, J.J. HENRY JUNE 6, 1969 (CC #7) (MA 3)						
	B	1. PLAN REV "A" APPROVED BY J.J. HENRY LTR FILE: 5589/516/AHS-273-69 DATED AUGUST 18, 1969.	JRS CMCG 12/2/9					
		2. PLAN REV "A" APPROVED BY USCG LTR FILE 5940/GEN DYN 18-20 OF AUGUST 26, 1969.						
9		3. ACCESS OPNGS INDICATED ABT FR 5.						
11		4. AO IN NT FLAT RELOC TO 15" FWD FR 20.						
7 12, 13		5. AO IN FLRS & FRS BEL FLAT 8'-0" ABL CHANGED FROM ON ℄ TO P & S. AO IN NT FLAT INDICATED 12" AFT OF BHD 24 P & 36" FWD OF FR 27 P. RESERVATIONS #8 & #11 RELEASED.						
12, 13		6. SECT 12-D & 13D ADDED TO INDICATE CONFIGURATION OF SEWAGE HOLDING TANKS AT BHDS 46 & 52, RESP P/S.						
		7. FR 28-34; MODIFIED OUTLINE OF SHELL STRG 11'-4" ABL P/S ADDED TYPICAL OPNGS IN FRS & FLRS & MODE OF ACCESS SHOWN. MH (OVER) FWD BHD 34 RELOC TO AGREE WITH REF 2. VL ADDED AFT FR 28¼ P/S. RESERVATION #1 RELEASED.						
15 TO 19		8. FR 34-46: SHELL FRMG & LONG'L DEEP GIRDERS ADDED. P/S ACCESS TO ALL BAYS PROVIDED BY MEANS OF AO IN STRUCT OR LR WHERE INDICATED. LOC OF MH IN MN DK INDICATED FOR WING TANK #2 P/S, AFT OF BHD 34 & FWD BHD 40, FOR WING TANK #3 P/S AFT OF BHD 40 & FWD OF BHD 46. LONG'L BHD IDENTITY ADDED.						
20 TO 24		9. FR 46-58: TANK CLG OPNGS IN LOWER DK OVER TANKS RELOC INBD P/S TO AGREE WITH REF #2. SHELL FRMG & LONG'L DEEP GIRDERS ADDED. P/S ACCESS TO ALL BAYS PROVIDED BY MEANS OF AO IN STRUCT OR LR WHERE INDICATED. MH MN DK (OVER) & VL P/S AFT OF 52 IN WING TANKS #5 P/S CHANGED TO AO OVER P/S & RELOC INBD. "LONG'L BHD" IDENTITY ADDED.						
20, 21, 22 24, 26		10. MH (OVER)/VL & AO (OVER)/VL AS LISTED RELOC TO AGREE WITH REF #2: 18" OFF ℄ (P) FWD BHD 40; 21" OFF ℄ (P) FWD BHD 46; 18" OFF ℄ (P) FWD BHD 52; 18" OFF ℄ (P) FWD BHD 58; 18" OFF ℄ (P) FWD BHD 64; W. TANK #4 FWD BHD 52 P/S; W. TANK #5 AFT BHD 52 P/S; W TANK #5 FWD BHD 58 P/S; W. TANK #6 FWD BHD 64 P/S.						
20, 21 22		11. "MH IN PLATF ___ OVER P/S" AFT OF BHD 46 & FWD OF BHD 52 IN WING TANK #4 P/S CHANGED TO "AO P/S". "MH IN MN DK ___ OVER P/S" AFT OF BHD 52 IN WING TANK #5 P/S CHANGED TO "AO P/S" TO AGREE WITH REF #2.						
22, 23 24, 25, 26		12. FR 58-64 - TRANSV SHELL FRMG & LONG'L DEEP GIRD. ADDED P/S. ACCESS TO ALL BAYS IN WING TANK #6 P/S PROVIDED BY MEANS OF AO IN STRUCT OR LR WHERE INDICATED. TRANSV BHD 64 OUTBD OF 19'-4¾" LONG'L BHD CHANGED FROM OT TO WT. NOTE "TOP OF I.B. (6'-0" ABL) REF #1 FOR ACCESS BELOW" ADDED FOR AREA FR 55-64 INBD OF LONG'L BHD P/S. VL 18" OFF ℄ (P) FWD BHD 64 RELOC TO SUIT & GIRD MODIFICATION AFT FR 63.						

CONT. ON PANEL 4

ZONE	LTR	REVISIONS — DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. PLAN REV "O" APPROVED BY J.J. HENRY LTR FILE 5589/516/AHS-115-69 DATED APRIL 29, 1969. SUBJECT TO COMMENT NOTED BELOW.	RS 7/18/9					
		2. PLAN REV "O" APPROVED BY U.S.C.G. LTR FILE 5940/GEN DYN 18-20 OF MAY 26, 1969.						
11D		3. PLAN REV "O" APPROVED BY U.S.P.H.S. LTR JUNE 11, 1969						
10A, 12A		4. ADDED PLAN VIEWS 21'-0" & 7'-0" ABL.						
15C		5. CORR RES NO. FROM #10 TO #1						
14D		6. SIZE, LOC & NOM OF AO. DELETED PENDING STRUCTURAL DEVELOPMENT.						
20B, 21B 20F, 21F		7 TANK CLEANING OPENINGS OVER INDICATED BET. FR 46 & 52 P/S						
20B, 20G		8. VL AFT OF FR 46 RELOC FROM 41'-8" TO 41'-6" OFF ℄ P/S TO SUIT STRUCTURAL DEVELOPMENT.						

REVISIONS TO	O	A	B 12-10-9	C 5-14-0	D 8-19-0	E 1-7-71	F 2-9-1	G 4-16	H 6-8-1	J 11-23	L 1-20-73
LYKES							/	/	/	/	1
M.A. (WASH)							–	/	/	/	1
M.A. (YARD)		1	1	1	1	/	/	/	/	/	1
J.J. HENRY (YARD)		1	1	1	1	/	/	/	/	/	1
J.J. HENRY (HOME)							/	/	2	2	2
ABS YD		1	1	1	1	/	/	/	/	/	
USCG		1	1	1	1	/	/	/	/	/	1
USPHS							–	–	–		
871		13	13	13	14	8	7	12	10	6	2
872		6	6	4	4	2	2	2	–		
873			1								
874		1	1	1	–						
875			1								
876		3	3	3	3	1	1	–	–		
LYKES MOB		1	1	1	1						
TPS 866		1	1	1	1					1	
CAISSON BLDG [illegible]					1	2	1	1	1	1	
TOTAL NRO'S FS		29	31	27	28	17	27				9
TOTAL NRO'S HS								22	19	10	
TOTAL RO											

17

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	2-30-9	800		4
			820		3
30212	B	12-11-9	826		12
30212	C	5-27-0	829		
3021	D	5/21/0	830		7
"	E	1-13-1	841	C+H	9
	F	2-10-71	842		
	G	4-19-71	843		1
	J	11-23-1	844		5
	K	3-3-2	899		
	L	1/24/3	LIBRARY		3
			835		1
			812		1
			[redacted]		
			[redacted]		
			TOTAL		42

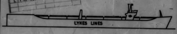
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G							

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
K 5-13-72
L 1-31-73

SEABEE



SEA BARGE CLIPPER

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
8	C&A - OUTBOARD PROFILE	30211-03×9	241-S16-1-9
7	C&A - INBOARD PROFILE	30211-03×8	241-S16-1-8
6	C&A & GEN ARR - FOCSLE, POOP DK & ABOVE	30211-03×7	241-S16-1-7
5	C&A & GEN ARR - UPPER DK	30211-03×6	241-S16-1-6
4	C&A & GEN ARR - CABIN DK	30211-03×5	241-S16-1-5
3	C&A & GEN ARR - MAIN DK	30211-03×4	241-S16-1-4
2	C&A - LOWER DK & TWEEN DK	30211-03×3	241-S16-1-3
1	C&A - INNERBOTTOM & TOP OF INNERBOTTOM	30211-03×1	241-S16-1-1

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
D	50		
C	37	19	
B	5000		
B	6		
A	7	3	18, 19 & 20

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30211-03×2

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN C.McG/GH.
DSGNR Smith
SUPV
ENGR

COMPT & ACCESS
TANKS BELOW LOWER DECK

APPROVED DATE 4/9
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS
USCG 5-26-69
USPHS 6-11-69

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-1-2	L

SCALE 1/4" = 1'-0"   SHEET 1 OF 1

OWNER APPROVAL LTR DATED APRIL 29, 1969

AREA = 58.5

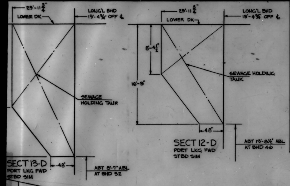
DWG. NO. 30211-03×2

Q div DWG NO. 30211-03×2

M.A. DWG NO. 241-S16-1-2

GENERAL DYNAMICS, QUINCY   NOV, 1973
MA NO. 241-516-1-2   8X
GD NO. 30211-03×2   FRAME ① 2 3 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S16-1-2 GD NO. 30211-03x2 FRAME 1 ② 3 4



15	D	8. MN INDIC IN MN DK AFT OF FR 34 RELOC TO AFT OF FR 35 TO AGREE WITH REF 3.
19		9. VL FWD BHD 46 RELOC FROM 21" TO 18" OFF ℄ P. LR ON CVK RELOC FROM 36" AFT TO 24" FWD FR 45
27,28		10. BHD 67-70 WALKWAY ON TOP OF STABILIZER DUCTS EXTENDED TO ℄ IN WAY OF TUNING VALVES OPERATING GEAR.
29,30 31,32		11. MACHY SP FR 70-82, CORR SIZE OF PILLARS ON FR 71 AT 19'-4 3/4" & 37'-11" OFF ℄ TO READ 14x14 1/2x87# & 14x14 1/2x111# RESP, P/S. REVISED WEIGHT OF PILLARS AT FR 71,72,75,77 & 80 ON ℄ & FR 78,79 AT 37'-11" OFF ℄ P/S. INDIC "EM" BHD ENCL. EM BHD 12" FWD FR 81, 14'-0" TO 20'-0" OFF ℄ P RELOC TO FR 81.
39,40	D	12. STRG GR CR FR 99-100 2/3, VL ON BHD 99, 14" OFF ℄ S RELOC TO 18" AFT FR 99 ON ℄. INDIC OF WTQAS (OVER) CHGD TO AO (OVER).
40,41 42		13. BHD 99-109, INDIC LR & GR ON FRS 100 2/3-102 ABT 7'-11 1/2" OFF ℄ P/S, AND ON FR 103 1/3 OUTBD OF OUTBD LONG. BHD P/S. ADDED ACCESS PLATF & LR/GR OUTBD OF OUTBD LONG BHD FR 107-107 1/2 P/S. AO IN OUTBD LONG. BHD 18" AFT FR 106 P DELETED.
45,47		14. FR 109-130, CHGD DK WEB OPNG (OVER) FR 119-120 TO AGREE WITH STRUCT DEV OF LWR DK. SPACE AFT OF BHD 17 3/16" FWD OF FR 128 DESIG "UNASSIGNED"
47,48		15. FR 127-130, DEL OF RBR FENDER SPRT STRUCT CORR TO AGREE WITH DES DEV.
49,50		16. EL 49-A, INDIC LR & GR FR 100 2/3-102 1/3 ABV STERN TUBE. SPACE AFT OF FR 101 BELOW STERN TUBE DESIG "VOID-INACCESSIBLE"/P/S. ADDED OUTLINE OF PILLARS AT FR 99-107 ON ℄. ADDED. INDIC PORS LOC OF AO THRU FLRS ABV STERN TUBE. IDENT INNER & OUTER PORTIONS OF STERN TUBE ESC TRK INDIC, VL & AO FR 99-99 1/3 CHANGED TO SUIT ITEM #12. SOURCE: ITEM 3-5,7-9,11,13,14,16 DES DEV. 6,10,15 J.J. HENRY LTR 5589/S16/AHS-276-70 OF 10 JUNE 1970 12,16 (PART) GDCC #50

REV 'E' IN PANEL 14

42	C	29 BHD 99-BHD 109 CONT OUTLINE OF RECESSES FOR RAIL MAKE-UP ASSY P/S REVISED TO SUIT DES & DEV. SPACES BLW STERN GATE RECESS FR 108-109 INBD OF LONG BHD 41'-0" OFF ℄ P/S MADE "INACCESSIBLE VOIDS."
42-48		30. FR 109-FR 130 WEB FR 110 RELOC TO 7 13/16" FWD FR 110. VL SHOWN AFT OF FR 111, 46'-11 1/2" OFF ℄ P/S. CONFIGUR. OF WINGTANK #12 P/S REVISED TO AGREE WITH STRUCT DESIGN & DEV. 18" DIA AO INDIC AS TYP ABT TANK BOTTOM. AO (OVER) AFT FR 127 DELETED & VL RELOC TO ABT 18" FWD OF FR 127, 46'-8" OFF ℄ P/S. BHD 24" FWD FR 128 RELOC TO 17 3/16" FWD FR 128 P/S
	7	31. CANTILEVER FR 107 1/2-130 P/S MODIF TO AGREE WITH STRUCT DES & DEV. AO THRU SPACE BLW LWR DK FR 128-130 SHOWN P/S. RESERV #14 REL.
49-51		32. IN EL 49-A INDIC ℄ GIRDER & ℄ BHD, AO SHOWN IN SKEG SIDES P/S ABT FR 103. ADDED 18" DIA ESC & VL AFT FR 99 & BPMH IN DRAIN TANK FWD FR 101. ADDED REF LINES "20'-0" ABL" & "28'-0" ABL."
49;50		33. IN PLAN 49-D CORR LOC OF DRAIN TK FR 100 2/3-101. INDIC MH (OVER) DELETED AO SHOWN IN SKEG SIDE BTW FR 101 1/3-101 2/3 P.
51		34. DELETED "SECT 51-D". SOURCE: ITEM 4-6, 8-14, 16-18, 22-24, 26, 28-33 STRUCT DESIGN 7 J.J. HENRY LTR 5589/59/AHS-336-69 OF 3 OCT 1969. 15, 25 & 34 ENGR DES & DEV. 20, 21 & 27 MACHY DES ITEM 3 QDCC #37 ITEM 19 QDCC #6
9-11 11 12,13 14,15	D	1. PLAN REV "C" APPD BY J.J. HENRY LTR 5589/S16/AHS-276-70 OF 10 JUNE 1970 CMcG 2. PLAN REV "C" APPD BY USCG LTR 5940/GEN DYNAMICS 18-20 OF 10 JUNE 1970. 3. FP TANK & PL AT 21'-0" ABL, INDIC HGT (ABL) OF AO THRU FLRS & IDENT BRST HK #1 & #3. 4. VL LOC 28" OFF ℄ S RELOC FWD TO BHD 22. CORR LINE OF SHELL AT 28'-0" IN PL/21'-0" ABL 5. BHD 24-28, INDIC VL (DN) AT FR 26 S. ADDED NOTE "PL 14-A FOR ACCESS BELOW" TO DESIGNATION "FLAT 18'-0" ABL". PL 14-A, SECT. 13-A, 15-A ADDED TO SHOW ACCESS ABOUT BOW THRUSTER TUNNEL SUPPORT STRUCTURES.
13		6. PL AT 7'-0" ABL, OUTLINE OF BOW THRUSTER TUNNEL MADE SIMILAR P & S.
14		7. BHD 28-34, INDIC HGT OF 15"x23" AO AT 5'-2 1/2" ABL. ADDED BARGE DECK DRAIN COLLECTING TANK & ACCESS WALKWAY AT FR 31-32 P.

REV "D" CONT IN PANEL #11

13-15		8. BHD 28-BHD 34 REVISED OUTLINE OF SCANTLINGS TO AGREE WITH STRUCT DES & DEV. CHANGED MODE OF ACCESS THRU FLRS. RELOC DRAINWELL (OVER) P/S FROM BHD 34 TO FWD SIDE OF FR 32 P/S.
15-17		9. BHD 34-BHD 40 DOCKING BRKTS INDIC AT CVK FRS 34 1/2-39 1/2 INCL P/S. SCANTLING OUTLINE IN WING TANK #2 P/S CHANGED TO REFLECT STRUCT DEV.
17-19		10. BHD 40-BHD 46 TRANSV FRMG REVISED TO AGREE WITH STRUCT DES & DEV. AO ADDED IN WEB FRS 41 P & 42,43,44,45 P/S IN WING TANKS #3. DOCKING BRKTS SHOWN ON CVK FRS 40 1/2-45 1/2 P/S. HORIZ STIF INDIC ON TRANSV BHD 40 & 46 & LONG. BHD P/S.
20-22		11. BHD 46-BHD 52 SCANTLINGS MODIF ON BHD 46 & 52 IN WAY OF SEWAGE HOLDING TANKS P/S TO AGREE WITH STRUCT DEV. HORIZ STIF INDIC ON LONG. BHDS & TRANSV BHD 52. DOCKING BRKTS INDIC AT CVK FR 46 1/2-51 1/2 P/S.
22-24		12. BHD 52-BHD 58 TRANSV FRMG 53,54,55,56 & 57 IN WING TANK #5 P/S REVISED TO AGREE WITH STRUCT DES & DEV. LONG. BHD STIF BRKTS INDIC IN FO TK #5 CTR MH (OVER) & VL, 18" OFF ℄ AFT BHD 52 RELOC TO AGREE WITH REF 2. DOCKING BRKTS ADDED ALONG CVK AT FRS 52 1/2-55 1/2 P/S.
24-26	C	13. BHD 58-BHD 64 TRANSV FRMG & MODE OF ACCESS REVISED IN WING TANK #6 P/S TO SUIT STRUCT DES & DEV. HORIZ STIF INDIC ON BHD 58 & LONG. BHD VERT STIF ON BHD 58 MODIF & LONG. BHD BRKTS INDIC P/S IN FO TK #6 CTR TO AGREE WITH STRUCT DES & DEV.
		14. BHD 64-BHD 67 TRANSV & LONG SCANTLINGS IN WING TANKS #7 REVISED TO AGREE WITH STRUCT DES & DEV. MODE OF ACCESS MODIFIED TO SUIT.
26,27		15. DELETED INDIC OF EQUALIZER DUCT BTW FR 66-67 IN ACCORD WITH BALLAST ENGR DEV. INDIC VERT LOC OF MH 6-66-2 AT 25'-3" ABL.
7		16. DELINEATION OF SP FR 64-67 BTW LONG BHDS P/S CHGD TO INDICATE "COFF" ABV POTABLE WATER TK AND MEANS OF ACCESS ABOUT "COFF", & UP TO LOWER DK., DOWN TO "POTABLE WATER TANK" & "COFF" BELOW. RESERVATION #6 RELEASED. HORIZ STIF SHOWN ON BHD 64,67 & LONG BHD.
		17. BHD 67-BHD 70 TRANSV FRMG REVISED P/S TO AGREE WITH STRUCT DEV. SPACE OUTBD OF LONG. BHDS P/S FR 67-70 CROSS-CONNECTED BY DUCTS FR 67-69 1/2 IS DESIGNATED "STABILIZER TANK P/S". INDIC "BPMH REF. 1" FOR ACCESS TO "COFF" BELOW. TOP OF I.B.
27,28		18. SPACE BTW LONG. BHDS P/S FR 67-70 IS DESIGNATED "STABILIZER CONTROL ROOM" WITH ACCESS PROVIDED FROM MACHY SPACE VIA 26"x63" QAWTDR #5.5-70-2 IN BHD 70 (P). WALKWAY SHOWN FROM MACHY SPC (P) TO ℄ FOR ACCESS TO CONTROL GEAR.
7		RESERV #2 RELEASED. VL 2(P), 2(S) ADDED FWD BHD 70 FOR ACCESS TO BPMH & RECESSES BLW. HORIZ STIF INDIC ON BHD 70 & LONG. BHD.
28		19. TOP OF DUCTS AT 15'-6" & TRANSV DUCT BHD AT FR 69 1/2 BTW LONG. BHDS & LONG. BHD FR 67-70 MADE "OT".
28-33		20. BHD 70-BHD 82 CORR DR #5.5-70-1 TO READ "5.5-71-1". CHGD FR GRTG LEV FROM 21'-6 1/2" TO 21'-4" ABL. RELOC & MODIF "WC" SP AT BHD 70 S. RELOC INBD END OF MN SWBD ENCL & ASSIGNED EMD NOS 5.5-76-1, 5.5-79-1,2 & 3 & 5.5-80-2. INDIC ARCH IN FR 77 P & BHD 82 AT ℄ IN WAY OF MN MACHY.

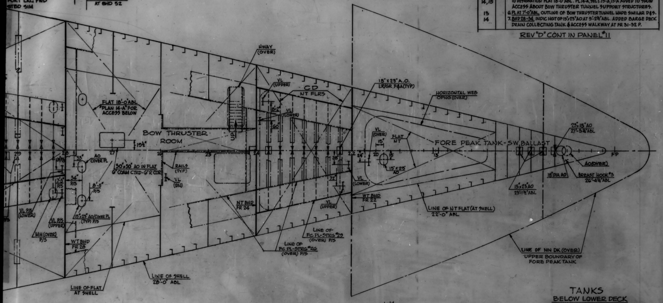
REV 'C' CONT BELOW

ABBREVIATIONS

ABL	ABOVE BASE LINE	KNU	KNUCKLE
ABT	ABOUT	LONGL	LONGITUDINAL
ABV	ABOVE	LOC	LOCATION
AO	ACCESS OPENING	LR	LADDER RUNG
		MH	MAN HOLE
BEL	BELOW	MN	MAIN
BHD	BULKHEAD	NT	NON TIGHT
℄	BASE LINE	NOM	NOMENCLATURE
BPMH	BOLTED PLATE MANHOLE	OPNG	OPENING
BRST HK	BREAST HOOK	OT	OIL TIGHT
CTR	CENTER	P	PORT
		PLATF	PLATFORM
DBL	DOUBLE		
DIA	DIAMETER	S	STARBOARD
DK	DECK	STAN	STANCHION
DR	DOOR	STGR	STRINGER
		SW	SALT WATER
EM	EXPANDED METAL		
ENGRS	ENGINEERS	TYP	TYPICAL
FD	FORCED DRAFT	VL	VERTICAL LADDER
FP	FORWARD PERPENDICULAR		
FR	FRAME	WT	WATER TIGHT
GR	GRAB ROD		
HWAY	HATCHWAY		

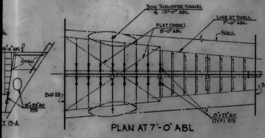
GENERAL NOTES

1. LOCATION OF ACCESS OPENINGS NOT OTHERWISE DIMENSIONED SHALL BE TAKEN FROM ST
2. SIZES OF ALL HATCHES, MANHOLES, DOORS, ETC, REPRESENT CLEAR OPENING.
3. CLEAR HEADROOM IN ACCOMMODATIONS, WORKING, NAVIGATION SPACES, PASSAGEWAYS, T SHOWER SPACES SHALL NOT BE LESS THAN 7'-6". CLEAR HEADROOM UNDER LOCAL P AS DUCTS, PIPING, LIGHTS, GIRDERS, ETC. SHALL NOT BE LESS THAN 7'-3" IN THE ABO
4. SILL AND COAMING HEIGHTS ARE FROM TOP OF STEEL DECK TO CLEAR OPENING
5. EXACT HEIGHTS OF AO ABOVE SHELL ETC ARE SHOWN ON STRUCTURAL PLANS WHERE ARE SO LOCATED THAT THE BOTTOM OF THE AO DOES NOT EXCEED 30" ABOVE SHEL OF ACCESS & TO REDUCE THE USE OF LADDER RUNGS.

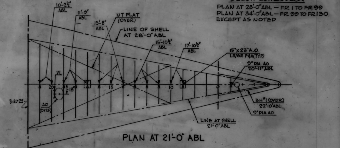


HWAY (OVER)
VL (UPPER)
CD
NT FLRS
15"x23" A.O. LR/GR P&A (TYP)
HORIZONTAL WEB OPNG (OVER)
FLAT 18'-0" ABL "PLAN 14-A" FOR ACCESS BELOW
VL (LOWER)
BOW THRUSTER ROOM
VL
FLAT NT
FORE PEAK TANK-SW BALLAST
25"x15" AO 27'-5 3/4" ABL
FP
30"x30" AO IN FLAT 6" COAM CTRD-G'R COR
AO COVER PL
RAILS (TYP)
VL (DN)
15"x25" AO
18" DIA AO
AO (OVER)
BREAST HOOK #3 26'-4 3/4" ABL
15"x23" AO 23'-1 1/2" ABL
VL (LOWER)
WT BHD FR 22
NT BHD FR 24
VL (UPPER)
VL P/S (LOWER)
VL P/S (UPPER)
15"x23" AO/COVER PL (TYP) P/S
MH (OVER) P/S
WT BHD FR 28
LINE OF NT FLAT (AT SHELL) 22'-0" ABL
LINE OF FC PL-STRG #29 (OVER) P/S
LINE OF FC PL-STRG #26 (OVER) P/S
LINE OF MN DK (OVER) UPPER BOUNDARY OF FORE PEAK TANK
LINE OF SHELL 28'-0" ABL
LINE OF FLAT AT SHELL

TANKS
BELOW LOWER DECK
PLAN AT 28'-0" ABL — FR 1 TO FR 99
PLAN AT 34'-0" ABL — FR 99 TO FR 130
EXCEPT AS NOTED



PLAN AT 7'-0" ABL



PLAN AT 21'-0" ABL

32,33		21. BHD 70-BHD 82 CONT REVISED CONFIGURATION OF ENGRS PLATF HOIST TRK. DESIGNATED TRK & DR #5.5-81-1 "FT". INCR TRK SIZE TO 72"
7		TO SUIT GO" DR. RELOC TRK DR FROM 35 1/2" TO 36" FWD BHD 82. RES. #13 REL.
33-35		22. BHD 82-BHD 88 REVISED OUTLINE OF SCANTLINGS IN WING TANK #8 P/S TO CONFORM WITH STRUCT DES & DEV. 18" DIA AO DELETED IN WEB FRS IN OUTER BAYS P/S. ADDED LR FR 83 & LONG #14 P/S. EXTENDED PLATF 18'-9" ABL OUTBD (P) AFT BHD 83. ADDED BREAK-AWAY VIEW IN SA TOP IN WAY OF EQUALIZING DUCTS P/S. INDIC HORIZ STIF ON BHD 84,88 & LONG BHD P/S.
35-37		23. BHD 88-BHD 94 REVISED TRANSV FRMG & LONG. IN WING TK #9 P/S TO AGREE WITH STRUCT DES & DEV. MODE OF ACCESS THRU BAYS CHGD TO SUIT. LR ADDED ON FR 89 & LONG. #14 FWD OF FR 89 P/S. INDIC HORIZ STIF ON BHD 94 & LONG. BHD P/S. ADDED BREAK-AWAY VIEW IN SA TOP IN WAY OF EQUALIZER DUCTS P/S. PROV LR FOR ACCESS ABT TK BOT P/S.
	C	24 BHD 94-BHD 99 OUTLINE OF TRANSV FRMG & LONG. CHGD IN WING TANK #10 P/S TO CONFORM WITH STRUCT DES & DEV. AO REVISED TO SUIT. VERT STIF INDIC ON BHD 99 & HORIZ STIF ON LONG. BHD P/S.
37-39		25. DELINEATION OF EQUALIZER DUCT REVISED TO CONFORM TO MODIF DUCT DESIGN. AO IN FLAT 48" AFT OF BHD 94, 17'-9" OFF ℄ RELOC TO 16 1/4" FWD FR 95, 15'-0" OFF ℄ P/S. COVER PLT INDIC.
		26. BHD 99-BHD 109 INDIC EXTENT OF ℄ GIRDER & ℄ BHD IN WAY OF SKEG STRUCTURE. ADDED REF "EL 49-A" AT ℄. CHGD EQUALIZER DUCT OPNG (S) TO 30" DIA. TO AGREE WITH DES & DEV OF DUCT.
39-42		27. MODIFIED OUTLINE OF RUDDER MACHY ABT FR 106. ADDED 42"x36" OPNG IN FLRS 39" AFT FR 105 & 36" AFT FR 106 FOR ACCESS & MAINT OF RAM MACHY. INDIC 54" DIA OPNG IN LWR DK (OVER) FOR ACCESS TO & REMOVAL OF RUDDER MACHY COMPONENTS.
		28. MODIFIED DRAINWELLS (OVER) AT FR 101 P/S TO AGREE WITH REF 2 RELOC AO IN OUTBD LONG. BHD FROM 16" FWD FR 106 TO 16" FWD OF FR 105 P/S. CHGD AO 24" AFT OF FR 107 TO 23"x15" P/S. DELETED AO SHOWN AT FR 102 1/2 (S). INDIC 18" DIA AO AT FR 100 1/2, 101 1/2, 102 1/2 & 103 1/2 IN LONG. GIRDER 29'-11 3/4" OFF ℄ P/S.

REV "C" CONT IN PANEL 10

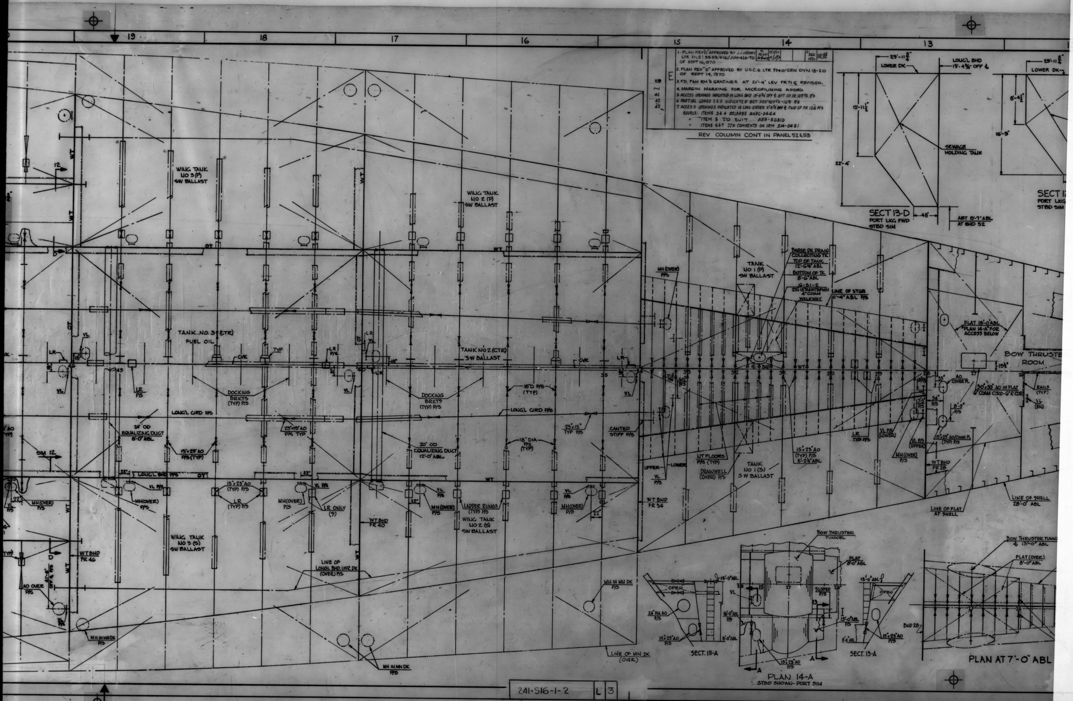
RESERVATIONS

~~1. SIZE & LOCATION OF ACCESS OPNGS IN WEB FRS & FLOORS BET BHD FR 28~~
~~STRUCTURAL DEVELOPMENT.~~
~~2 "RESERVED SPACE FOR STABILIZER" FRS 67-70 P/S PENDING RESOLUTION~~
~~3 PILLARS & GIRDER BEL LOWER DK ON ℄ FRS 94-99 PENDING STRUCTURA~~
~~4 STEERING GEAR ROOM FRS 99-107 & COFFERDAM 107-109 P/S PENDI~~
~~OF STEERING GEAR ARRANGEMENT & COMPT BOUNDARIES.~~
~~5 STERN CONFIGURATION AFT OF FR 125 P/S PENDING DEVELOPMENT O~~
~~SYSTEM & BARGE FENDERING.~~
~~6. SIZE & LOCATION OF MH & ACCESS TO POTABLE WATER TANK & COF~~
~~PENDING STRUCTURAL DESIGN DEVELOPMENT.~~
~~7. ACCESS TO FORCED DRAFT FAN ROOM PENDING ACTION ON RE~~
~~8. LOCATION & SIZE OF HWAY & ACCESS LADDER TO BOW THRUSTER RO~~
~~DEVELOPMENT & FIRM ARR OF THRUSTER SPACE.~~
~~9. SHAFT ALLEY LONGL BHDS, FRS 84-94, P/S PENDING STRUCTURAL~~
~~10. PLATF & ACCESS IN FIRE & HEELING PUMP RM FRS PENDING DEVELOPM~~
~~11. SIZE AND LOCATION OF MH & ACCESS THRU FLOORS PENDING STRUCTU~~
~~12. INDICATION OF ELEVATOR GUIDANCE SYSTEM & BARGE FENDE~~
~~DEVELOPMENT.~~
~~13. ENGINEER'S PLATFORM HOIST PENDING DESIGN DEVELOPMENT.~~
~~14. CANTILEVER STRUCTURES & LOWER DK AFT FR 107 1/2 PENDING STRUCTURAL DEVEL~~

241-S16-1-2 L 2

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO. 241-516-1-2 GD NO. 30211-03×2 FRAME 1 2 ③ 4



19
18
17
16
15
14
13
WING TANK NO 3 (P) SW BALLAST
WING TANK NO 2 (P) SW BALLAST
TANK NO 3 (CTR) FUEL OIL
TANK NO 2 (CTR) SW BALLAST
TANK NO 1 (P) SW BALLAST
TANK NO 1 (S) SW BALLAST
WING TANK NO 3 (S) SW BALLAST
WING TANK NO 2 (S) SW BALLAST
DOCKING BRKTS (TYP) P/S
LONG'L GIRD P/S
24" OD EQUALIZING DUCT 8'-0" ABL
20" OD EQUALIZING DUCT 12'-0" ABL
15"x23" AO P/S (TYP)
25"x15" AO P/S TYP
18" D. P/S (TYP)
18" DIA P/S (TYP)
LONG'L BHD P/S
LR (TYP) P/S
MH (OVER) P/S
LR ONLY (S)
LADDER RUNGS (TYP) P/S
WT BHD FR 40
WT BHD FR 46
WT BHD FR 34
WT BHD FR 28
LINE OF LONGL BHD. LWR DK (OVER) P/S
MH IN MN DK P/S
LINE OF MN DK (OVER)
CANTED STIFF P/S
NT FLOORS P/S (TYP)
DRAINWELL (OVER) P/S
BARGE DK DRAIN COLLECTING TK TOP OF TANK 12'-6¼" ABL BOTTOM OF TK 8'-6" ABL
LINE OF STGR 11'-4" ABL P/S
WALKWAY
FLAT 18'-0" ABL "PLAN 14-A" FOR ACCESS BELOW
BOW THRUSTER ROOM
30"x30" AO IN FLAT 6" COAM CTRD-G'R COR
LINE OF SHELL 28'-0" ABL
LINE OF FLAT AT SHELL
SEWAGE HOLDING TANK
LOWER DK
LONG'L BHD 19'-4¾" OFF ℄
29'-11¾"
13'-11½"
22'-4"
16'-9"
8'-4½"
SECT 13-D PORT LKG FWD STBD SIM
ABT 8'-7" ABL AT BHD 52
BOW THRUSTER TUNNEL
FLAT 8'-0" ABL
SECT. 15-A
SECT. 13-A
PLAN 14-A STBD SHOWN-PORT SIM
BOW THRUSTER TUNNEL ℄ 13'-0" ABL
FLAT (OVER) 8'-0" ABL
PLAN AT 7'-0" ABL

	E	1. PLAN REV'D" APPROVED BY J.J. HENRY LTR FILE: 5589/516/JUM-426-70 OF SEPT 16, 1970
		2. PLAN REV "D" APPROVED BY U.S.C.G. LTR 5940/GEN DYN 18-20 OF SEPT 14, 1970
29		3. F.D. FAN RM & GRATINGS AT 21'-4" LEV FR71 ℄ REVISED.
7		4. MARGIN MARKING FOR MICROFILMING ADDED.
42		5 ACCESS OPENINGS INDICATED IN LONG BHD 19'-4¾" OFF ℄ AFT OF FR 107½ P/S
42		6 PARTIAL LONGS 2 & 5 INDICATED BET FRS 107½-109 P/S
42		7 ACCESS OPENINGS INDICATED IN LONG GIRDER 11'-5½" OFF ℄ FWD OF FR 106 P/S SOURCE: ITEMS 3 & 4 RELEASE ANDC-0464 " ITEM 5 TO SUIT AEA-50310 " ITEMS 6 & 7 JJH COMMENTS ON IRM 514-0421

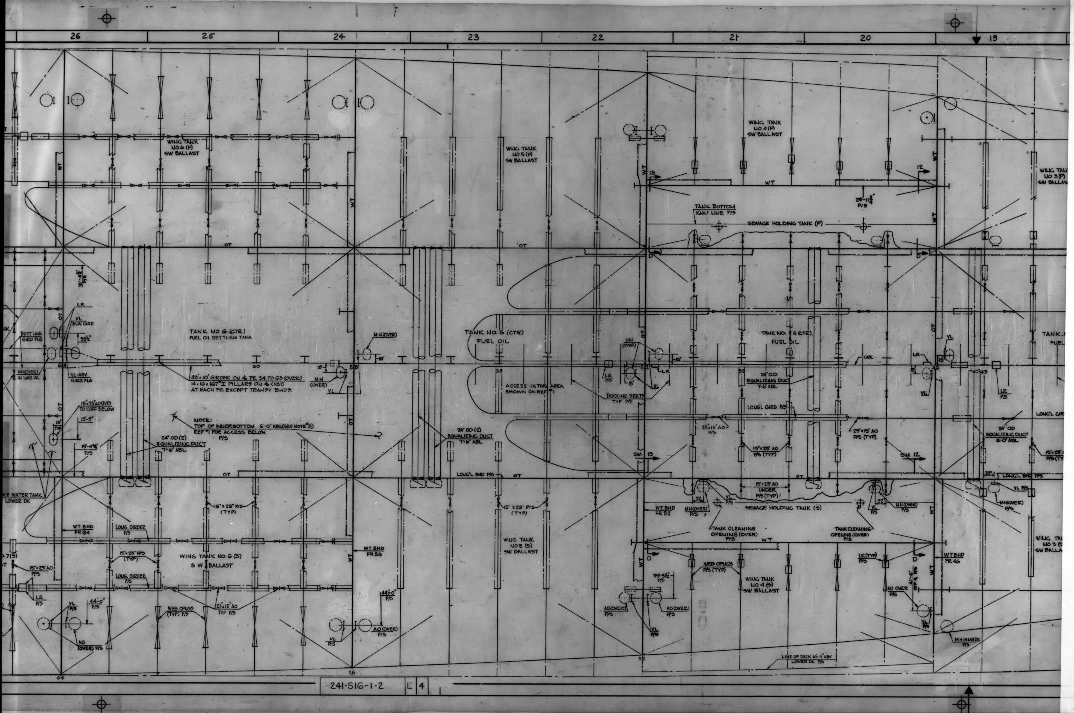
RMC 12/18/70 21 DEC 1970

REV COLUMN CONT IN PANEL 52 & 53

241-516-1-2 L 3

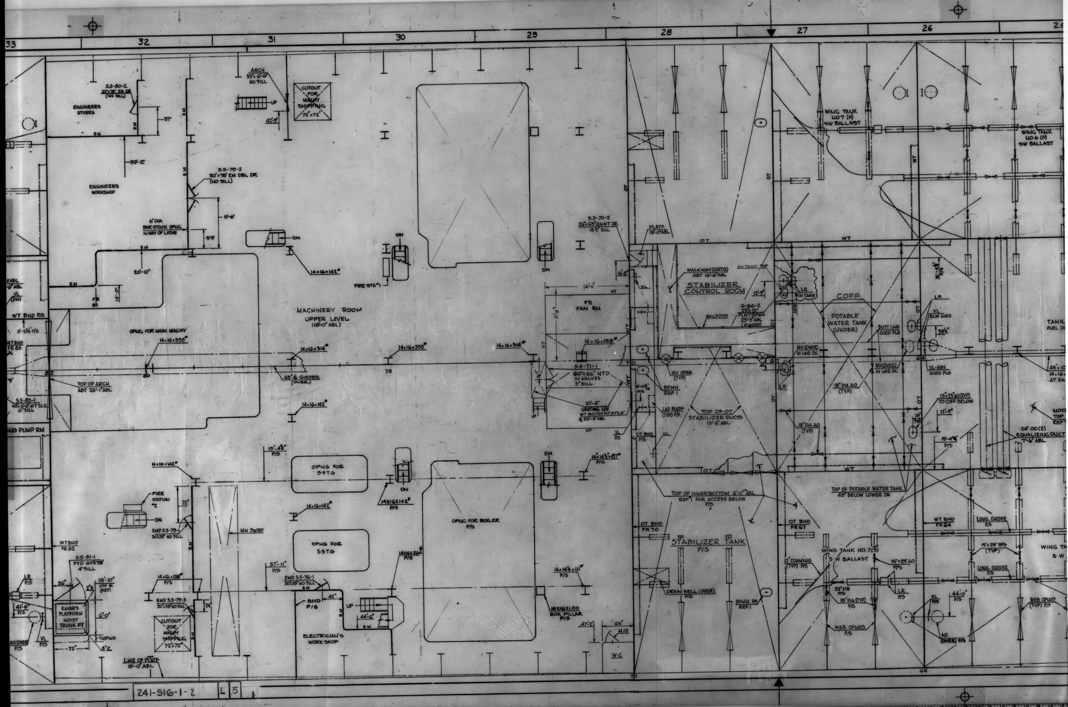
GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-516-1-2 GD NO. 30211-03×2 FRAME 1 2 3 ④


26
25
24
23
22
21
20
19
WING TANK NO 6 (P) SW BALLAST
WING TANK NO 5 (P) SW BALLAST
WING TANK NO 4 (P) SW BALLAST
WING TANK NO 3 (P) SW BALLAST
TANK BOTTOM KNU. LINE P/S
SEWAGE HOLDING TANK (P)
29'-11 3/4" P/S
TANK NO 6 (CTR) FUEL OIL SETTLING TANK
TANK NO. 5 (CTR) FUEL OIL
TANK NO. 4 (CTR) FUEL OIL
BUTT LINE GIRD. FLG
MH (OVER) IN LWR DK
VL-ABV GIRD. FLG
VL BLW GIRD.
LR
58 1/2"
16'-4 3/4" P/S
15"×25" AO (TYP) TO COFF BELOW
12'-9"
15'-4 3/4" P/S
46"×10" GIRDER ON ℄ FR 34 TO 63 (OVER)
14×16×167# I PILLARS ON ℄ (ABT) AT EACH FR EXCEPT TRANSV BHDS.
NOTE: TOP OF INNERBOTTOM 6'-0" ABL (GEN NOTE 5) REF #1 FOR ACCESS BELOW. P/S
24" OD (2) EQUALIZING DUCT 7'-6" ABL
24" OD (2) EQUALIZING DUCT 7'-6" ABL
24" O.D. EQUALIZING DUCT 7'-6" ABL
24" OD EQUALIZING DUCT 6'-0" ABL
MH (OVER)
ACCESS IN THIS AREA SHOWN ON REF #1
DOCKING BRKTS TYP P/S
LONG'L GIRD. P/S
23×15" AO P/S
23"×15" AO P/S (TYP)
15"×25" AO P/S (TYP)
15"×23" AO UNDER P/S (TYP)
LONG'L BHD P/S
OT
WT
SIM 13
SIM 12
15"×23" P/S (TYP)
WT BHD FR 52
WT BHD FR 64
WT BHD FR 58
WT BHD FR 46
SEWAGE HOLDING TANK (S)
TANK CLEANING OPENING (OVER) P/S
LONG. GIRDER P/S
WING TANK NO. 6 (S) S W BALLAST
WING TANK NO 5 (S) SW BALLAST
WING TANK NO 4 (S) SW BALLAST
WING TANK NO 3 (S) SW BALLAST
WEB OPNGS P/S (TYP)
23×15 AO TYP P/S
44'-0" P/S
39'-3 1/2" P/S
AO (OVER) P/S
VL P/S
LR (TYP) P/S
MH IN MN DK P/S
LINE OF DECK 10'-9" ABV LOWER DK P/S
PLE WATER TANK LOWER DK
64
58
52
46
241-516-1-2
L 4

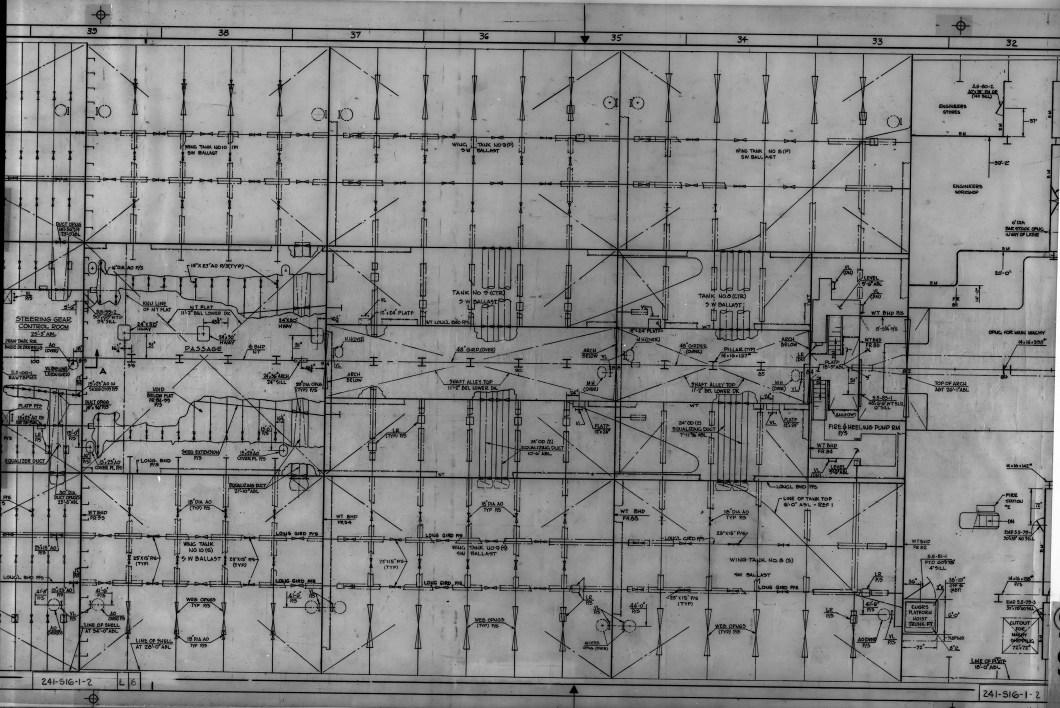
GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-516-1-2 GD NO. 30211-03x2 FRAME 1 2 3 4 ⑤ 6 7 8 9


33
32
31
30
29
28
27
26
ENGINEERS STORES
5.5-80-2 30"x78" EM DR (NO SILL)
ENGINEERS WORKSHOP
5.5-79-2 30"x78" EM DBL DR (NO SILL)
6" DIA BAR STOCK OPNG IN WAY OF LATHE
ARCH 33"x 6'-6" NO SILL
CUTOUT FOR MACHY SHIPPING 72"x72"
MACHINERY ROOM UPPER LEVEL (18'-0" ABL)
OPNG FOR MAIN MACHY
14x16x398#
14x16x314#
14x16x142#
48" ℄ GIRDER (OVER)
TOP OF ARCH ABT 26'-1" ABL
5.5-83-1 48"x6'-6" WTSLD 6" SILL
WT BHD P/S
WT BHD FR 83
FIRE STA #1
FIRE STATION #2
FD FAN RM
5.5-70-2 26"x63" RAWT DR 15 1/2" SILL
5.5-71-1 60"x66" NTD IN HALVES 3" SILL
14x16x158#
GRATING LEV WT BOLTED PLT 37"x18" ℄ 22'-3" ABL
OPNG FOR SSTG
OPNG FOR BOILER P/S
MN SWBD
14x14 1/2x87# P/S
14x14 1/2x111# P/S
16x16x100 BOX PILLAR P/S
EMD 5.5-79-1 30"x78" NO SILL
EMD 5.5-79-3 30"x78" NO SILL
EMD 5.5-76-1 30"x78" NO SILL
BHD P/S
ELECTRICIAN'S WORK SHOP
WTBHD FR 82
5.5-81-1 FTD 60"x78" 4" SILL
ENGRS PLATFORM HOIST TRUNK FT
LINE OF PLATE 18'-0" ABL
WC
MJD
STABILIZER CONTROL ROOM
WALKWAY (GRTG) ABT 16'-6" ABL
PLATF 18'-0" ABL
6-66-2 23"x15" FLWT (5) PMH 25'-3" ABL (HINGED)
VLV OPER. (TYP)
BPMH REF 1
TOP OF OT STABILIZER DUCTS 15'-6" ABL
LAD PLATF (TYP) P/S
OT BHD FR 70
TOP OF INNERBOTTOM 6'-0" ABL REF 1 FOR ACCESS BELOW P/S
STABILIZER TANK P/S
DRAIN WELL (OVER) P/S
BPMH P/S REF 1
COFF
POTABLE WATER TANK (UNDER)
BUTT LINE GIRD FLG
MH (OVER) IN LWR DK
18" DIA AO (TYP)
TOP OF POTABLE WATER TANK 48" BELOW LOWER DK
OT BHD FR 67
WING TANK NO7 (P) SW BALLAST
WING TANK NO6 (P) SW BALLAST
WING TANK NO.7 (S) S W BALLAST
12" COAMING (TYP) P/S
15"x23" AO P/S
23"x15 P/S
18" DIA (TYP) P/S
WEB OPNGS P/S
WT BHD FR 64
LONG. GIRDER P/S
15"x23" AO (TYP) TO COFF BELOW
24" OD (2) EQUALIZING DUCT 7'-6" ABL
AO (OVER) P/S
WEB OPNGS (TYP) P/S
VL-ABV GIRD. FLG
VL BLW GIRD.
LR IN TANK
ON TANK TOP
241-516-1-2
L 5

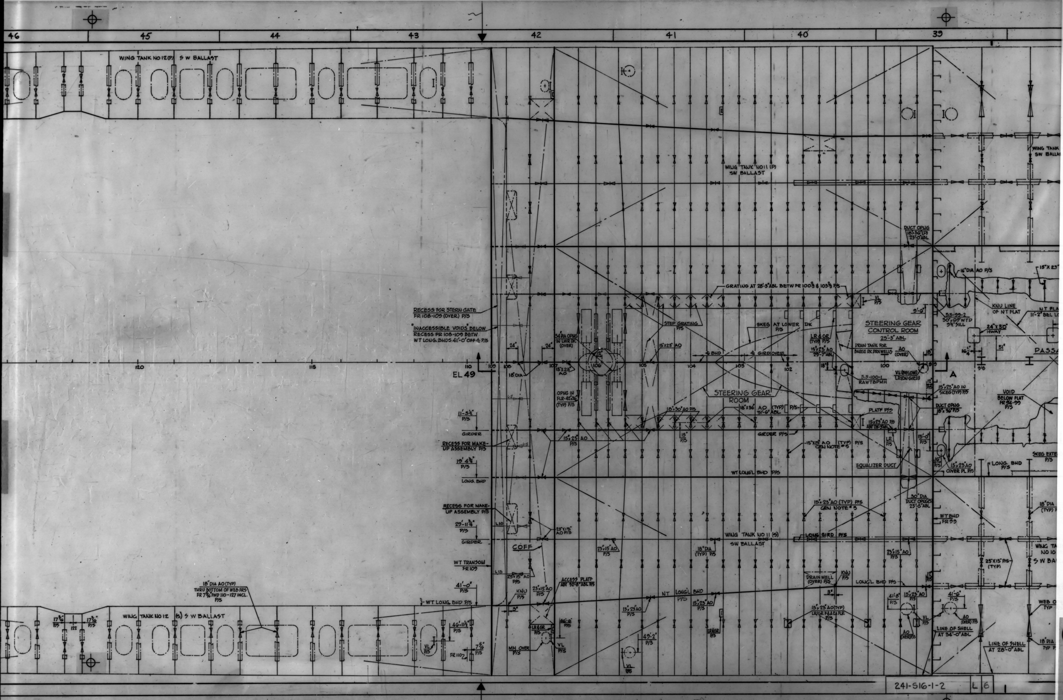
GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-516-1-2 GD NO. 30211-03x2 FRAME 1 2 3 4 5 6 7 8 9


39
38
37
36
35
34
33
32
WING TANK NO 10 (P) SW BALLAST
WING TANK NO 9 (P) SW BALLAST
WING TANK NO 8 (P) SW BALLAST
ENGINEERS STORES
5.5-80-2 30"x78" EM DR (NO SILL)
57"
39'-2
ENGINEERS WORKSHOP
6"DIA BAR STOCK OPNG IN WAY OF LATHE
20'-0"
DUCT OPNG 18"x36"(P) 25'-5"ABL
16"DIA AO P/S
15"x23"AO P/S (TYP)
KNU LINE OF NT PLAT
NT PLAT 11'-2" BEL LOWER DK
5.5-99-2 30"x69" WTD 9½" SILL
24"x30" HWAY
24"x30" HWAY
STEERING GEAR CONTROL ROOM 25'-5" ABL
PASSAGE
DRAIN TANK FOR BARGE DK DRN WELLS
AO (OVER)
VL (BELOW) LR (ON GIRD)
5.5-100-1 RAW TBPMH
100
A
24"x30" ARCH 24" SILL
29"DIA OPNG (TYP) P/S
24"x30" HWAY
12"x24" PLATF
TANK NO 9 (CTR) SW BALLAST
TANK NO 8 (CTR) SW BALLAST
WT LONGL BHD P/S
18"x24" PLATF
48" GIRD (OVER)
48" GIRDER (OVER)
PILLAR (TYP) 14x16x167#
M H (OVER)
ARCH BELOW
SHAFT ALLEY TOP 11'-2" BEL LOWER DK
90
85
LEVEL 5'-6" ABL
WT BHD P/S
5'-9¾" P/S
WT BHD FR 83
PLATF 18'-9" ABL
5.5-83-1 48"x66" WTSLD 6" SILL
FIRE & HEELING PUMP RM P/S
WT BHD FR 84
LEVEL 3'-6" ABL
OPNG FOR MAIN MACHY
14x16x398#
TOP OF ARCH ABT 26'-1" ABL
80
VOID BELOW FLAT FR 94-99 P/S
DUCT OPNG 18"x36" P/S
PLATF P/S
15"x23"AO IN SKEG (TYP) P/S
EQUALIZER DUCT
SKEG EXTENSION P/S
15"x23"AO COVER PL P/S
LONG. BHD P/S
LR (TYP) P/S
24" OD (2) EQUALIZING DUCT 10'-6" ABL
24" OD (2) EQUALIZING DUCT 7'-11⅝" ABL
PLATF 12"x24"
EQUALIZING DUCT 21'-10" ABL
30"DIA DUCT OPNGS 25'-5" ABL
WT BHD FR 99
WT BHD FR 94
WT BHD FR 88
WT BHD FR 82
LONGL BHD P/S
LINE OF TANK TOP 6'-0" ABL - REF 1
18"DIA AO (TYP) P/S
WING TANK NO 10 (S) SW BALLAST
WING TANK NO 9 (S) SW BALLAST
WING TANK NO. 8 (S) SW BALLAST
LONG GIRD P/S
23"x15" P/S (TYP)
WEB OPNGS TYP P/S
LINE OF SHELL AT 34'-0" ABL
LINE OF SHELL AT 28'-0" ABL
ACCESS OPNG (OVER)
44'-0" P/S
41'-6" P/S
5.5-81-1 FTD 60"x78" 4" SILL
ENGRS PLATFORM HOIST TRUNK FT
SLOPING
FIRE STATION #2
EMD 5.5-79-1 30"x78" NO SILL
14x16x142#
14x16x158# P/S
EMD 5.5-79-3 30"x78" NO SILL
CUTOUT FOR MACHY SHIPPING 72"x72"
LINE OF PLATF 18'-0" ABL
241-516-1-2
L 6
241-516-1-2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

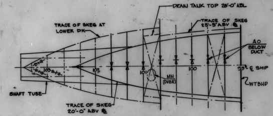
MA NO. 241-516-1-2 GD NO. 30211-03×2 FRAME 1 2 3 4 5 6 7 8 9


46
45
44
43
42
41
40
39
WING TANK NO 12 (P) S W BALLAST
WING TANK NO 11 (P) SW BALLAST
DUCT OPNG 18"x30" (P) 23'-0" ABL
GRATING AT 28'-3" ABL BETW FR 100⅞ & 103⅞ P/S
16" DIA AO P/S
KNU LINE OF NT FLAT
NT FLAT 11'-2" BEL
RECESS FOR STERN GATE FR 108-109 (OVER) P/S
"INACCESSIBLE VOIDS" BELOW RECESS FR 108-109 BETW WT LONG. BHDS 41'-0" OFF ℄ P/S
24"
54" DIA OPNG IN LWR DK (OVER)
STEP GRATING P/S
SKEG AT LOWER DK P/S
STEERING GEAR CONTROL ROOM 25'-3" ABL
LR & GR (TYP) P/S
15"x23" AO 29'-7" ABL
DRAIN TANK FOR BARGE DK. DRN WELLS
AO (OVER)
5.5-99-2 30"x60" WTD 3½" SILL
24"x30" HWAY
PASSA
EL 49
120
115
110
108
107
106
105
104
103
102
100
99
98
18" DIA
15"x23" AO
℄ BHD
℄ GIRD (OVER)
5.5-100-1 RAWTBPMH
VL (BELOW) LR (ON GIRD)
A
OPNGS IN FLR-42"x36" (TYP) P/S
STEERING GEAR ROOM
18"x36" AO 31'-6" ABL (TYP) P/S
18"x30" AO P/S
PLATF P/S
15"x23" AO P/S ABT 28'-3" ABL
DUCT OPNG 18"x30" P/S
15"x23" AO IN SKEG (TYP) P/S
VOID BELOW FLAT FR 96-99 P/S
11'-5¾" P/S
GIRDER
RECESS FOR MAKE-UP ASSEMBLY P/S
19'-4⅜" P/S
LONG. BHD
GIRDER P/S
15"x23" AO (TYP) P/S GEN NOTE #5
EQUALIZER DUCT
15"x23" AO COVER PL P/S
LONG. BHD P/S
SKEG EXTE P/S
WT LONG'L BHD P/S
30" DIA DUCT OPNGS 25'-5" ABL
18" DIA (TYP)
RECESS FOR MAKE-UP ASSEMBLY P/S
25'-11¾" P/S
GIRDER
25"x15" AO P/S
WT BHD FR 99
LONG GIRD P/S
WING TANK NO 11 (S) SW BALLAST
23"x15" AO P/S
COFF
WT TRANSOM FR 109
WING TA NO 10 S W BA
25"x15" P/S (TYP)
DRAIN WELL (OVER) P/S
KNU
LONG'L BHD P/S
18" DIA AO (TYP) THRU BOTTOM OF WEB FRS FR 7⅝" FWD 110-127 INCL. P/S
41'-0" P/S
WT LONG. BHD P/S
KNU P/S
ACCESS PLATF ABT 32'-6" ABL P/S
NT LONG'L BHD P/S
15"x23" AO P/S
15"x23" AO (TYP) LR (GR PLATE & FLR P/S
41'-6" P/S
AO (OVER) P/S
LINE OF SHELL AT 34'-0" ABL
LINE OF SHELL AT 28'-0" ABL
WEB O TYP
WING TANK NO 12 (S) S W BALLAST
17⅝" P/S
122
46'-11½" P/S
7½" P/S
FR 110⅞
LR & GR P/S
46'-8" P/S
MH OVER P/S
VL P/S
49'-2" P/S
241-516-1-2 L 6

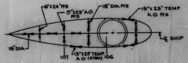
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-516-1-2 GD NO. 30211-03X2 FRAME 1 2 3 4
5 6 7 8 9

REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
V "E" APPROVED BY J.J. HENRY REP. I.R.M. #514-0421 DATED DEC 16, 1970 REV "E" APPROVED BY U.S.C.G. LTR. GEN DYN 18-20 DATED JAN 28, 1971. NCLATURE OF "¢ FUEL OIL TANK" REDESIGNATED TO "FUEL OIL SETTLING TK" RUNGS & GRAB RODS ADDED BET FRS 64-67 P/S INTO & ADJACENT TO POTABLE TANK. PLATFORM ABT 9'-6" OFF ¢ & 48" FWD FR 70 P/S DELETED. CAL LADDER ABT 9'-6" OFF ¢ & 24" FWD FR 70(S) RELOCATED TO 15'-7" OFF ¢ V BHD ABT 48" FWD FR 70 (S). CAL LADDER ABT 9'-6" OFF ¢ & 24" FWD FR 70(P) RELOCATED TO 13'-10" OFF ¢ WD FR 70 (P). NCLATURE OF "UNASSIGNED" SPACE BET BHD 17 13/16" FWD OF FR 128 TO 130 P/S SIGNATED TO "COFFERDAM." 3" W.T.B.P. ADDED TO BHD 70, 6'-10 9/16" OFF ¢ P/S, 22'-9" ABOVE BASE LINE. CE: ITEM # 3 TO SUIT I.M.W. I.R.M. DATED JAN. 9, 1971 ITEM # 4 INCORP AEA # S-0379 ITEM # 5, 6 & 7 TO SUIT LIAISON REQUEST # 11052 & ANDC # S-0588 REL ITEM # 8 TO SUIT J.J. HENRY YARD REP JAN 19, 1971 ITEM # 9 INCORP AEA # S-0354	R.S. [illegible]	[illegible]				
CAL LADDER P/S AFT OF FRAME 58 ATED FROM 70" TO 60" OFF ¢ /S. CAL LADDER & A.O. OVER P/S RELOCATED FROM 41'-6" TO 44'-0" ¢ SHIP P/S, FWD & AFT SIDE OF TRANS BHD. 58. ED A.O. 23" x 15", 32'-9" ABL BETWEEN FR 129-130 P/S & 23" - 15" AO 29-130, 28'-0" ABL P/S DELETED. SOURCE: ITEMS 1 & 2 DES CORR. ITEM #3 INCORP LIAISON AEA S-0391.	R.S. [illegible]	[illegible]			16 APR 1971	
REV "F" APPROVED BY U.S.C.G. LTR. GEN DYN 18-20 DATED, 30 MAR 71. REV "G" APPROVED BY J.J. HENRY, REP # S-07-0316 DATED APR 14. 71. O. @ FR 84(S) BET LONG # 12 & 13, FR 85 P/S BET LONG # 9 & 10, 12 & 13, FR 86 P/S BET G 12 & 13 & FR 87 P/S BET LONG 12 & 13 DELETED. ¢ DIM ADDED TO LONG BHD BET FR 82-83. CATION OF PARTIAL LONG # 10 & 13 & A.O. ADDED RCE: - ITEM # 3 TO SUIT AEA-S-0439. ITEM # 4 DES CORR. ITEM # 5 TO SUIT AEA-S-0328	[illegible]	[illegible]			7 JUN 1971	
N REV "H" APPROVED BY HENRY REP. IRM # S-14-085 ED 5-21-71. BHD 17'-10" OFF ¢ S FR 79, DELETED & INDIC OF SWBD REVISED. SOURCE: ITEM 2 DES CORR.	[illegible] JED	[illegible]			22 NOV 1971	
ED L.R. ON FWD SIDE OF D FR 40 - 36" OFF ¢, P. RCE: AEA NO. S-1054 LYKES	[illegible] A.J.V.	[illegible]				
CESS OPENINGS BET FRS 64- A BET LONGL BHD 19'-4 3/4" OFF P/S, REVISED TO AGREE WITH SHIP.	1/19/73 A.J.V.	[illegible]				

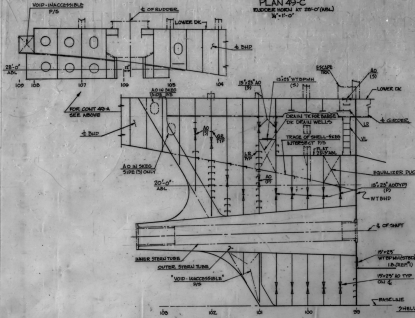
APPD BY USCG LTR 30 MARCH 1971.


52
51
50
49
48
47
46
45
DRAIN TANK TOP 28'-0" ABL
TRACE OF SKEG AT LOWER DK
TRACE OF SKEG 25'-5" ABV ¢
AO BELOW DUCT
¢ SHIP
WTBHD
MH (OVER)
SHAFT TUBE
TRACE OF SKEG 20'-0" ABV ¢
102
101
100
99

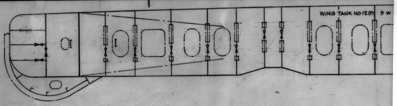
PLAN 49-D
SKEG AT 20'-0" (ABL)
¼" = 1'-0"

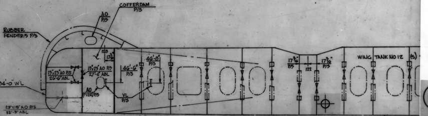

6" x 24" P/S
9" x 23" AO P/S
18" DIA P/S
15" x 23" TEMP A O P/S
¢ SHIP
18" DIA
107
15" x 23" TEMP A O (STBD)
106

PLAN 49-C
RUDDER HORN AT 28'-0" (ABL)
¼" = 1'-0"


VOID-INACCESSIBLE P/S
¢ OF RUDDER
LOWER DK
¢ BHD
28'-0" ABL
12"
109
108
107
106
105
104
ESCAPE TRK
AO (S)
15" x 23" AO (S)
15" x 23" WTBPMH (S)
AO IN SKEG SIDE P/S
LOWER DK
FOR CONT 49-A SEE ABOVE
¢ GIRDER
¢ BHD
DRAIN TK FOR BARGE
DK DRAIN WELLS
LR
AO (S)
GR TYP
TRACE OF SHELL-SKEG INTERSECT P/S
VL
LR TYP
FLAT 25'-3" ABL
AO IN SKEG SIDE (S) ONLY
EQUALIZER DUCT
AO (P)
20'-0" ABL
15" x 23" AO (TYP) (P)
WT BHD
¢ OF SHAFT
15" x 23" WTBPMH (STBD) I.B. (REF. #1)
INNER STERN TUBE
OUTER STERN TUBE
15" x 23" AO TYP ON ¢
"VOID - INACCESSIBLE" P/S
BASELINE
103
102
101
100
99

EL 49-A
SKEG & SHAFT TUBE AT ¢
¼" = 1'-0"

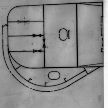

WING TANK NO 12 (P)
S W

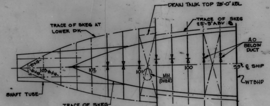

130
125
120
COFFERDAM P/S
AO P/S
RUBBER FENDERS P/S
128
17 3/16"
15" x 23" AO P/S 26'-6" ABL
15" x 23" AO P/S 27'-4" ABL
46'-6" P/S
46'-8" P/S
17 3/16" P/S
122
17 3/16" P/S
WING TANK NO 12 (S)
SHELL AT 34'-0" WL
AO (OVER) P/S
VL P/S
23" x 15" AO P/S 32'-9" ABL

241-516-1-2 L 7

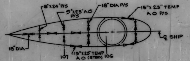
54 53 52 51 50 49 48 47 46

ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A DATE	M.A APPD	OWNER DATE	OWNER APPD
25 27 27 29 28 47 28	F	1. PLAN REV "E" APPROVED BY J.J. HENRY YARD REP. I.R.M. #514-0421 DATED DEC 16, 1970 2. PLAN REV "E" APPROVED BY U.S.C.G. LTR. 5940/GEN DYN 18-20 DATED JAN 28, 1971. 3. NOMENCLATURE OF "℄ FUEL OIL TANK" REDESIGNATED TO "FUEL OIL SETTLING TK" 4. LADDER RUNGS & GRAB RODS ADDED BET FRS 64-67 P/S INTO & ADJACENT TO POTABLE WATER TANK. 5. LADDER PLATFORM ABT 9'-6" OFF ℄ & 48" FWD FR 70 P/S DELETED. 6. VERTICAL LADDER ABT 9'-6" OFF ℄ & 24" FWD FR70(S) RELOCATED TO 15'-7" OFF ℄ & TRANSV BHD ABT 48" FWD FR70 (S). 7. VERTICAL LADDER ABT 9'-6" OFF ℄ & 24" FWD FR70(P) RELOCATED TO 13'-10" OFF ℄ & 14" FWD FR70 (P). 8. NOMENCLATURE OF "UNASSIGNED" SPACE BET BHD 17 13/16" FWD OF FR 128 TO 130 P/S REDESIGNATED TO "COFFERDAM." 9. 37"X18" W.T.B.P. ADDED TO BHD 70, 6'-10 9/16" OFF ℄ P/S, 22'-9" ABOVE BASE LINE. SOURCE: ITEM #3 TO SUIT I.M.H. I.R.M. DATED JAN. 9, 1971 ITEM #4 INCORP AEA # S-0379 ITEM # 5, 6 & 7 TO SUIT LIAISON REQUEST #11052 & ANDC # S-0588 REL ITEM # 8 TO SUIT J.J. HENRY YARD REP JAN 19, 1971 ITEM # 9 INCORP AEA # S-0354	RS 2/4/71					APPD BY USCG LTR 30 MARCH 1971.
15 24 47	G	1. VERTICAL LADDER P/S AFT OF FRAME 58 RELOCATED FROM 70" TO 60" OFF ℄ SHIP P/S. 2. VERTICAL LADDER & A.O. OVER P/S RELOCATED FROM 41'-6" TO 44'-0" OFF ℄ SHIP P/S, FWD & AFT SIDE OF TRANS BHD. 58. 3. ADDED A.O. 23"X15", 32'-9" ABL BETWEEN FR 129-130 P/S & 23"-15" AO BET 129-130, 28'-0" ABL P/S DELETED. SOURCE: ITEMS 1 & 2 DES CORR. ITEM #3 INCORP LIAISON AEA S-0391.	[illegible]				16 APR 1971	
34 33 42	H	1. PLAN REV "F" APPROVED BY U.S.C.G. LTR. 5940/GEN DYN 18-20 DATED 30 MAR 71. 2. PLAN REV "G" APPROVED BY J.J. HENRY, REP I.R.M. # S-07-0316 DATED APR 14. 71. 3. 18" A.O. @ FR 84(S) BET LONG # 12 & 13, FR 85 P/S BET LONG # 9 & 10, 12 & 13, FR 86 P/S BET LONG 12 & 13 & FR 87 P/S BET LONG 12 & 13 DELETED. 4. OFF ℄ DIM ADDED TO LONG BHD BET FR 82-83. 5. INDICATION OF PARTIAL LONG # 10 & 13 & A.O. ADDED SOURCE: ITEM # 3 TO SUIT AEA-S-0439. ITEM # 4 DES CORR. ITEM # 5 TO SUIT AEA-S-0328	[illegible]				7 JUN 1971	
32	J	1. PLAN REV "H" APPROVED BY J.J. HENRY REP. IRM # S-14-085 DATED 5-21-71. 2 EM BHD 17'-10" OFF ℄ S FR 79, DELETED & INDIC OF MN SWBD REVISED. SOURCE: ITEM 2 DES CORR.	[illegible] JED				22 NOV 1971	
17	K	1. ADDED L.R. ON FWD SIDE OF BHD FR 40 - 36" OFF ℄, P. SOURCE: AEA NO. S-1054 LYKES	[illegible] A.J.V.					
26,27	L	1. ACCESS OPENINGS BET FRS 64-67 & BET LONGL BHD 19'-4 3/4" OFF ℄, P/S, REVISED TO AGREE WITH SHIP.	1/19/73 A.J.V.					

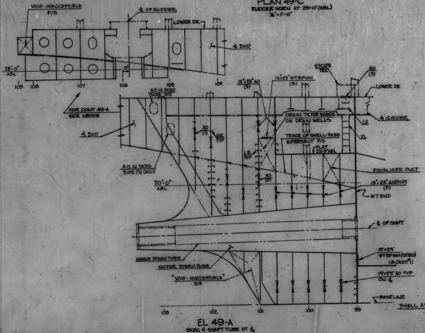



DRAIN TANK TOP 28'-0" ABL
TRACE OF SKEG AT LOWER DK
TRACE OF SKEG 25'-3" ABV ℄
AO BELOW DUCT
℄ SHIP
WTBHD
SHAFT TUBE
TRACE OF SKEG 20'-0" ABV ℄
MH (OVER)
103 1/2
103
102
101
100
99

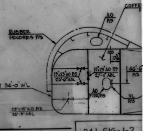
PLAN 49-D
SKEG AT 20'-0" (ABL)
1/4" = 1'-0"


6"X24" P/S
9"X23" AO P/S
18" DIA P/S
15"X23" TEMP AO P/S
℄ SHIP
18" DIA
107
15"X23" TEMP AO (STBD)
106

PLAN 49-C
RUDDER HORN AT 28'-0" (ABL)
1/4" = 1'-0"


VOID-INACCESSIBLE P/S
℄ OF RUDDER
LOWER DK
℄ BHD
28'-0" ABL
12"
109
108
107
106
105
104
ESCAPE TRK
AO (S)
15"x23" AO (S)
15"x23" WTBPMH (S)
LOWER DK
AO IN SKEG SIDE P/S
FOR CONT 49-A SEE ABOVE
DRAIN TK FOR BARGE DK DRAIN WELLS
℄ GIRDER
LR
℄ BHD
AO (S)
GR TYP
TRACE OF SHELL-SKEG INTERSECT P/S
VL
FLAT 25'-3" ABL
LR TYP
AO IN SKEG SIDE (S) ONLY
EQUALIZER DUCT
20'-0" ABL
AO (P)
15"x23" AO (TYP) (P)
WT BHD
℄ OF SHAFT
INNER STERN TUBE
OUTER STERN TUBE
15"x23" WTBPMH (STBD) I.B. (REF. #1)
"VOID - INACCESSIBLE" P/S
15"x23" AO TYP ON ℄
BASELINE
103
102
101
100
99

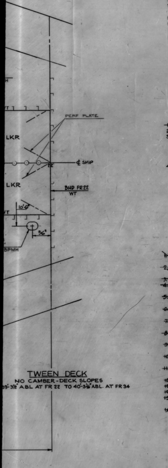
EL 49-A
SKEG & SHAFT TUBE AT ℄
1/4" = 1'-0"


COFFE
RUBBER FENDERS P/S
AO P/S
128
17 3/16"
15"x23" AO P/S 26'-6" ABL
15"x23" AO P/S 27'-4" ABL
46'-6" P/S
SHELL AT 34'-0" WL
AO (OVER) P/S
VL P/S
23"X15" AO P/S 32'-9" ABL

241-S16-1-2

GENERAL DYNAMICS, QUINCY
MA NO. 241-S16-1-2
NOV, 1973 8X
GD NO. 30211-03×2 FRAME 1 2 3 4 5 6 7 8 9

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-516-1-3 GD NO. 30211-03x3 FRAME ① 2 3 4



TWEEN DECK
NO CAMBER-DECK SLOPES
39'-3½" ABL AT FR 22 TO 40'-3⅛" ABL. AT FR 34

ABBREVIATIONS

ABL	ABOVE BASE LINE
ABT	ABOUT
ABV	ABOVE
AO	ACCESS OPENING
BEL	BELOW
BHD	BULKHEAD
℔	BASE LINE
BPMH	BOLTED PLATE MANHOLE
BRST HK	BREAST HOOK
C.D	COFFERDAM
CTR	CENTER
DBL	DOUBLE
DIA	DIAMETER
DK	DECK
DR	DOOR
EM	EXPANDED METAL
ENGRS	ENGINEERS
FD	FORCED DRAFT
FP	FORWARD PERPENDICULAR
FR	FRAME
HS	HORIZONTAL SLIDING
H WAY	HATCHWAY
KNU	KNUCKLE
LONGL	LONGITUDINAL
LR	LADDER RUNG
MH	MAN HOLE
MN	MAIN
NT	NON TIGHT
OPNG	OPENING
OT	OIL TIGHT
P	PORT
PLATF	PLATFORM
PERF	PERFORATED
S	STARBOARD
STAN	STANCHION
STGR	STRINGER
SW	SALT WATER
TYP	TYPICAL
VL	VERTICAL LADDER
VEST.	VESTIBULE
WT	WATER TIGHT

GENERAL NOTES

~~1 EXACT LOCATIONS FOR CUTTING ALL ACCESS OPENINGS SHALL BE TAKEN FROM STRUCTUAL PLANS.~~
2. SIZES OF ALL HATCHES, MANHOLES, DOORS, ETC., REPRESENT ~~CLEAR~~ OPENING.
3. CLEAR HEADROOM IN ACCOMMODATION, WORKING, NAVIGATION SPACES, PASSAGEWAYS, TOILET AND SHOWER SPACES SHALL NOT BE LESS THAN 7'-6". CLEAR HEADROOM UNDER LOCAL POINTS SUCH AS DUCTS, PIPING, LIGHTS, GIRDERS ETC., SHALL NOT BE LESS THAN 7'-3" IN THE ABOVE SPACES AND SHALL BE THE SUBJECT OF INDIVIDUAL APPROVALS.
4. SILL AND COAMING HEIGHTS ARE FROM TOP OF STEEL DECK TO CLEAR OPENING.

RESERVATIONS

~~1. LOCATION & SIZE OF HWAY & ACCESS LADDER TO BOW THRUSTER ROOM PENDING EQUIPT DEVELOP & FIRM ARR OF THRUSTER SPACE.~~
~~2. SIZE & LOCATION OF CUTS FOR UPTAKES, VENT, ACCESS, ETC IN MCHY CASING FR 70-82 P/S PENDING DESIGN DEVELOPMENT OF MCHY SPACE ARR.~~
~~3. LOCATION OF GANT ESC 5 - PENDING STUDY FOR IMPROVING MEANS OF EGRESS FROM STEERING GEAR RM.~~
~~4. BARGE WINCHES & WT RECESSES FOR DOLLY P/S PENDING DEVELOP OF BARGE HDLG EQUIPT.~~
~~5. LOC OF MANHOLES & LDRS INTO CHAIN LKR SUMP & VOID BELOW TWEEN DK FR 22-24 PENDING STRUCTURAL DEVELOP, CHAIN LKR BHDS, FLATS, ETC.~~
~~6. "RESERVED SPACE FOR STABILIZER" BETWEEN FRAME 67-70 P/S — PENDING DETERMINATION OF STABILIZER CONFIGURATION.~~
~~7. AREA IN WAY OF STERN GATES, INCLUDING RECESSES FOR SHEAVES, MAKE UP RAMP, & OTHER BARGE HDLG EQUIPT PENDING DEVELOPMENT OF BARGE HANDLING SYSTEM.~~
~~8. LOC & SIZE OF ALL PILLARS & STANS LOWER DK. TO TWEEN TO MAIN DK FR. 22 TO 32 - PENDING STRUCTURAL DEVELOP OF AREA, FR 30-32.~~
~~9. STERN CONFIGURATION, AFT FR 125 P/S - PENDING DEVELOPMENT OF ELEVATOR GUIDANCE SYSTEM & BARGE FENDERING.~~
~~10. INDICATION OF ELEVATOR GUIDANCE SYSTEM & BARGE FENDERING PENDING DESIGN DEVELOPMENT.~~
~~11. FORE&AFT LOC OF MHS 5-64-1 & 5-66-2 PENDING STRUCTURAL DEVELOPMENT OF TRANSVERSE BHDS BELOW.~~
~~12. ELECTRICAL STORES & M.G. COMPARTMENT PENDING ALTERNATE LOCATION.~~
~~13. ALL RECESSED TOWING BITTS P/S PENDING DESIGN DEVELOPMENT OF RIGGING DEPT.~~
~~14. CANTILEVER & ELEVATOR CONFIGURATION AFT FRAME 109 PENDING DESIGN DEVELOPMENT.~~
~~15. LOCATION OF MAIN LONG'L BHD BETWEEN FR 34-41 P/S & DRAINWELL OUTBOARD AFT FR 31 PENDING DESIGN DEVELOPMENT.~~
~~16. ENGINEERS PLATE HOIST TRUNK LOCATION PENDING DEVELOPMENT BY MECH DESIGN.~~

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. PLAN REV "O" APPROVED BY JJ HENRY LTR FILE 5589/516/AHS-104-69 DATED APRIL 24, 1969 SUBJECT TO COMMENTS NOTED BELOW.	RS 7/23/9	Dg				
		2. PLAN REV "O" APPROVED BY USCG LTR FILE 5940/GEN DYN 18-20, MAY 26, 1969.						
		3. PLAN REV "O" APPROVED BY ABS. LTR DATE JULY 18, 1969.						
		4. PLAN REV "O" APPROVED BY USPH. LTR DATE JUNE 11, 1969.						
1 A		5. MARITIME ADMINISTRATION DWG NO. ADDED.						
7B		6. ADDED RESERVATION NO. 10 & 11.						
7C		7. GEN NOTE NO 1 DELETED.						
VARIOUS		8. FIRST DIGIT OF ACCESS NUMBERS CHGD FROM "4" TO "T" ON TWEEN DK & FROM "5" TO "L" ON LOWER DK.						
8D		9. REVISED ℄ BHD IN CHAIN LKR.						
9C, 9E 9D, 16D		10. EM DOOR T-25-2 & T-26-1 ℄ DIM REVISED FROM 27" TO 19".						
		11. ADDED NOTE "TOP PARALLEL TO SHEER" TO NT HATCH T-24-1 & L-24-1.						
10F 12C	A	12. ADDED "½" UP" TO DOORS T-27-2 & T-33-1.						
14D 17D		13. ADDED PILLAR ON FR 15 & 26 ℄ SHIP.						
16D		14. MH L-24-1 CHGD FROM WT BPMH TO FWT BPMH.						
18 & 19		15. RES #4 REVISED TO INCLUDE STOW. SPARE TRANSPORTER CABLE & BARGE WINCH INDICATION DELETED, SPACE REVISED FROM "BARGE WINCH MACHINERY ROOM" TO "RESERVED SPACE."						
20E		16. NOTES INDICATING PILLAR SIZES ALONG ℄ SHIP MODIFIED						
26 28		17. VL AFT FR 52, FWD & AFT OF FR 58 RELOC FROM 41'-6" TO 44'-0" OFF ℄ P/S & INDICATED MH OVER RELOC TO SUIT.						
30 H		18. VL AFT OF FR 64 RELOC FROM 40'-0" TO 44'-0" OFF ℄ S & INDICATED MH OVER RELOC TO SUIT.						
46 D		19. DELETED PILLAR ON FR 106 ℄ SHIP & INDICATED RUDDER STOCK COVER, PILLAR ON FR 105 & 107 AS 14" ⌀ 202 #.						
46A, 46H		20. ADDED 15 x 23 RAWTBP MH P/S 46'-0" OFF ℄ & 18" AFT FR 107.						
46A-46H		21. RELOC 23" DIA AO FROM 35" FWD OF FR 106 & 44'-0" OFF ℄ TO 20" FWD FR 106 & 49'-0" OFF ℄ P/S.						
46B, 46G		22. DOOR L-107-4 & L-107-5 REVISED FROM 30" x 63½" x 15" SILL TO 30" x 63" x 15½" SILL.						
VARIOUS		23. WEB FRAMES FROM FR 35 TO 107 P/S MODIFIED.						
VARIOUS		24. MANHOLES 18" OFF ℄ P RELOC AS FOLLOWS L-39-2 FROM 18" TO 21" FWD FR 40, L-51-2 FROM 18" TO 21" FWD FR 52, L-63-2 FROM 20" TO 21" FWD FR 64, L-66-2 FROM 18" TO 21" FWD FR 67 ALL TO SUIT STRUCT DEVELOPMENT.						
43 D		25. SCUTTLE L-99-1 RELOC FROM 18" TO 14" OFF ℄ S & INDICATED HINGES.						
47 G		26. ADDED TIGHTNESS TO STERN GATES P/S.						
		27. RES # 9 DELETED. SOURCE: ITEM 5 TO SUIT JJ HENRY LTR OF APRIL 24, 1969 FILE 5589/516/AHS-104-69. ITEMS 6 THRU 12, 14, 17 THRU 22 & 25 DES DEV. ITEM 13, 16, 23 & 24 TO SUIT GEN DYN C.C. #7 & CONTR CHG MA #3. ITEM 15 TO SUIT REF #63 & J.J. HENRY LTR OF APPROVAL DATED APRIL 24, 1969. ITEM 26 TO SUIT AMERICAN BUREAU OF SHIPPING LTR OF JULY 18, 1969. ITEM 27 TO SUIT CANCELLED GEN DYN C.C. #8 (ELIM OF STERN HOOK).						
	B	1. PLAN REV "A" APPROVED BY J.J. HENRY LTR OF AUG. 18, 1969 FILE 5589/516/AHS-278-69 SUBJECT TO COMMENTS NOTED BELOW.	9/2/9 RS, GM LL	[illegible]				
		2. PLAN REV "A" APPROVED BY U.S.C.G. LTR FILE: 5940/GEN DYN 18-20 DATED AUG. 26, 1969.						
		3. PLAN REV "A" APPROVED BY U.S.P.H.S. LTR DATED SEPT 5, 1969						
6C, 20		4. RELEASED RES # 3 & ADDED RES # 12, 13, 14, 15 & 16						
6H		5. ADDED LR TO ABBREVIATION COLUMN.						
10D		6. RELOC HWAY & IL AFT FR 28 S TO SUIT RELOC HWAY ON MN DK						
17B,G 54C,F 21E 26E 26B,G 28E 28A,H 30E 38D 39D 43B,G 46A,H 46D,E		7. MANHOLE & ACCESS OPENINGS RELOC TO CLEAR ERECTION BUTTS TO SUIT STRUCTURAL DEVELOPMENT AS FOLLOWS: T-51-1 & 2 FROM 21" FWD TO 26" FWD OF FR 52 P/S, T-69-1 & 2 FROM 37" FWD TO 39" FWD OF FR 70 P/S, L-39-2 FROM 21" FWD TO 26" FWD OF FR 40 P, L-51-2 FROM 21" FWD TO 26" FWD OF FR 52 P, 23" DIA AO FROM 21" FWD TO 26" FWD OF FR 52 P/S, L-57-2 FROM 21" FWD TO 26" FWD OF FR 58 P, AO 23" DIA FROM 21" FWD TO 26" FWD OF FR 58 P/S, L-63-2 FROM 21" FWD TO 26" FWD OF FR 64 P, AO 23" DIA FROM 20" FWD TO 26" FWD OF FR 64 P/S, L-84-1 FROM 20" AFT TO 28" AFT OF FR 84 S, L-88-1 FROM 20" AFT TO 28" AFT OF FR 88 S, AO 23" DIA FROM 20" AFT TO 52½" AFT OF FR 99 P/S, AO 23" DIA FROM 20" FWD OF FR 106 TO 24" AFT OF FR 105 P/S.						
24		8. RELOC 15" x 23" FWTBPMH L-24-1 & L-24-2 FROM ABT 7'-0" TO 5'-9" ABV DK P/S & RELEASED RES # 5.						
25C,F		9. RELOC TANK CLEANING COVER L-47-1, L-47-2, L-50-1 & L-50-2 FROM 26'-0" TO 23'-2⅜" OFF ℄ P/S TO SUIT RIGGING & NUMBERS CHANGED TO L-47-3, L-47-4, L-50-3 & L-50-4 TO SUIT ITEM #1.						
13C		10. RELOC 15" x 23" AO FROM ON ℄ TO 16" OFF ℄ P						
32		11. LONG & TRANV BULKHEADS BET FR 67 & 70 MADE O.T.						
33-37		12. ARCH 33" x 6'-8½" ADDED IN BHD FR 77 & MACHINERY CASING REV TO SUIT MACHINERY ARR.						
46A,H		13. ADDED W/FIXED LIGHT TO DOORS L-107-4 & L-107-5						
47-50		14. CANTILEVER STRUCTURE, ACCESS & FRAME SPACING REV AFT FR 109, TO SUIT STRUCTURAL DEVELOPMENT.						
51A,H		15. ACCESS OPENINGS CHANGED FROM 36" DIA TO 15" x 23" &						

CONT IN PANEL #4

ZONE	LTR	DESCRIPTION
	B	RELOC FROM 3½" TO 11¾" AFT FR 127 & FROM 7½" TO 7 13/16" AFT FR 128 P/S.
44A, H		16. ADDED 15" x 23" AO IN BHD FR 102 P/S.
		17. ELEVATOR CONFIGURATION REV TO SUIT RUCKER ARR
54F		18. INDICATED SLOPING BHD IN WAY OF IL AT FO STA (P) TO MN DK.
		19. INDICATED GRATING AT DRAIN WELL BET. FR 101 - 102 P/S
VARIOUS		20. FIRE STATIONS NUMBERED & DOORS REVISED FROM SINGLE TO DOUBLE & FIRE STATIONS 9 & 10 ADDED AT FRAME 107. SOURCE: ITEMS 5, 8, 9 & 10 TO SUIT J.J. HENRY LTR OF AUG. 18, 1969. ITEM 11 TO SUIT QUINCY CC #6. ITEMS 4, 6-9, 12-20 DESIGN DEVELOPMENT.
	C	1. PLAN REV "B" APPROVED BY JJ HENRY LTR 5589/516/AHS-441-69 OF 15 DEC 69.
		2. PLAN REV "B" APPROVED BY USCG LTR 5940/GD 18-20 OF 17 DEC 69
50-52 AH		3. CANTILEVER BETWEEN FR 121 & 123 P/S & AFT FR 127 REVISED.
47 & 51 A&H		4. INDICATION OF ROLLER FWD & AFT OF ELEVATOR & ROLLER GUIDE AFT FR 109 P/S DELETED.
50 A&H		5. LIGHTENING HOLES FR 121-123 P/S DELETED.
51 H		6. LIGHTENING HOLES ADDED FR 126-127 (P).
47 & 51 A&H		7. VERTICAL LADDER ADDED IN LIGHTENING HOLE AFT FR 111 & FWD FR 127 P/S.
51 A&H		8. AO 48 13/16" FWD FR 128 AT 46'-6" OFF ℄ P/S DELETED.
11 CDE		9. UNASSIGNED SPACE TWEEN DK FR 28-34 & LOWER DK FR 24-28 CHANGED TO ENGINEERS STORES.
15-16 DE		10. VOID SPACE LOWER DK FR 22-24 CHANGED TO COFFERDAM.
3 & 10 CDEF		11. MG ROOM TWEEN DK FR 22-28 CHANGED TO SPARE PARTS STOWAGE.
10 BC		12. ELECTRICAL STORES & MG MAINTENANCE TWEEN DK FR FR 26-28 (S), TITLE CHANGED TO ELECTRICAL STORES & MAINT SHOP.
36-37 H		13. DISTILLED WATER TANK ABT FR 80-82 (P) REVISED & DIMENSIONED.
37-H		14. MH INDICATED OVER DISTILLED WATER TANK.
32AH 7-C		15. RES #6 RELEASED, OPENINGS FOR STABILIZER DELETED, SPACE BOUNDARY BHDS CHANGED FROM OT TO WT, & SPACE ON LOWER DK MADE VOID.
54 C&E		16. MH'S T-69-1 & T-69-2 CHANGED FROM OT TO WT.
14 E		17. AO BETWEEN FR 5 & 6 AT 16" OFF ℄ (P) DELETED.
VARIOUS		18. DECK TIGHTNESS ADDED.
10 E&F		19. FS # 55 & 56 ADDED ON TWEEN DK.
14 B		20. NOTATION OF EXTENT OF SLOPE OF DECK CORRECTED FROM FR 127 TO FR 130.
17 E		21. LOCATION OF MH L-28-2 CHANGED FROM 36" TO 24" AFT FR 28.
VARIOUS		22. FS 3-10 RELOCATED & INDICATION CORRECTED.
30 E		23. MH L-64-1 RELOCATED FROM 18" AFT FR 64 AT 18" OFF ℄ (S) TO 21" AFT FR 64 AT 18" OFF ℄ (P), & NO CHANGED TO L-64-2 ACCORDINGLY.
31-D		24. MH L-66-2 RELOCATED FROM 18" OFF ℄ (P) TO 18" OFF ℄ (S) & NO CHANGED TO L-66-1 ACCORDINGLY.
31B 31G		25. MH NO L-66-1 CHANGED TO L-66-3 & MH NO L-66-4 CHANGED TO L-66-2.
37 A		26. ENGINEERS PLATF HOIST TRUNK REVISED.
43 A&H		27. AO 52½" AFT FR 99 & 41'-6" OFF ℄ P/S RELOCATED TO 41'-8" OFF ℄ P/S.
44 A&H		28. AO IN BHD 102 CHANGED FROM 7'-3" OFF SHELL TO 46'-8" OFF ℄ & HEIGHT 24" ABV DECK CHANGED TO 24" SILL P/S.
46 A&H		29. AO 24" AFT FR 105 RELOCATED FROM 49'-0" TO 49'-2" OFF ℄ P/S.
46 A&H		30. INDICATION OF MH OVER FWD FR 106 P/S CHANGED TO 23" DIA & RELOCATED.
46 A&H		31. DOORS L-107-4 & L-107-5 SILL HEIGHT CHANGED FROM 15½" TO 23½" & STEPS ADDED IN WAY TO SUIT.
54 B		32. 23" x 30" WTBP IN BHD 70 (S) AT FUEL OIL FILLING STATION CHANGED FROM 11'-6" TO 8'-0" OFF 37'-11" BHD.
36 A&H		33. INDICATION OF GRATING BETWEEN FR 80 & 81 (P) DELETED.
51 A&H		34. AO 48 13/16" FWD FR 128 P/S DELETED.
46 D		35. WALKWAY 12'-3" ABV LOWER DK AFT FR 106 REVISED & CONSOLE INDICATED ON WALKWAY.
46 D		36. METAL GATE L-107-1 RELOCATED.
9 E		37. ROOM FOR POWER & CONTROL UNIT FOR BOW THRUSTER ON TWEEN DK CHANGED TO BOW THRUSTER CONTROL ROOM.
19 CDE		38. WT RECESS FOR DOLLY P/S & WT RECESS FOR SPARE TRANSPORTER CABLE (P) DELETED.
20 B&G		39. INDICATION OF LADDER RUNGS AFT FR 34 RELOCATED P/S.
10 F		40. HATCHWAY ON TWEEN DECK 24" FWD FR 28 (P) RELOCATED FROM 20'-1" TO 20'-7¾" OFF ℄.
10 D		41. HATCHWAY TWEEN DK 32" AFT FR 28 RELOCATED FROM 7'-6" TO 51" OFF ℄ & LADDER ACCESS IN WAY THEREOF REVERSED. INDICATION (OVER) OF SAME ON LOWER DK REVISED ACCORDINGLY.
7 BC		42. RESERVATION NO 7, 11, 12, 14, & 16 RELEASED.
8 DE		43. DECK PLATE IN WAY OF CHAIN LOCKER DESIGNATED AS PERF PLATE.
4 H		44. DIMENSIONS IN REV "B" ITEM 15 CORRECTED.
43 A&H		45. INDICATION OF MH OVER AFT FR 99 P/S REVISED.
46 AH 54 D		46. PLATF FR 106-107 P/S REVISED & PLAN VIEW OF PLATF ADDED IN PANEL 54-D.
7C 19 & 20 CDEF		47. RESERVATION NO 4 RELEASED, OPENING FOR BARGE TRANSPORTER ADDED IN BHD 34 P/S, WT BOUNDARY BHDS ADDED IN WAY OF TRANSPORTER LOOPER SYSTEM, DR NO L-31-1 ADDED, UNASSIGNED SPACE REVISED ACCORDINGLY, & DRAINWELLS RELOCATED TO FWD EXTENT OF WT BOUNDARY.
VARIOUS		48. INDICATION OF RECESSED TOWING BITTS REVISED & RELOCATED & RES # 13 RELEASED.
19-22 B&G 7-B		49. SLOPING PLATE FR 34-41½ P/S LOCATED, KNU CHANGED FROM 7'-0½" AFT FR 40 TO 48¾" AFT FR 41, PLATE FWD IS 28'-3" OFF ℄ & RES # 15 RELEASED.
33-37 AH 7-C		50. INDICATION OF CUTS IN MACHY CASING P/S REVISED, & RES # 2 RELEASED.
19-22 BG 12 AH		51. MH'S NO L-35-3 & L-35-4 ADDED, & AO'S ADDED THROUGH WEB FR'S 35-39 P/S ON LOWER DK. BRACKET WITH 15" DIA AO'S ADDED AFT FR 34 ON TWEEN DK P/S.

REV "C" CONT. IN PANEL 56

Apr. Prel. Prel FULL

REVISIONS	O	A	B	C	D	E	F	G	H	J		SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO			11/3/9	4/10/0	9/10/0	11/2/0	1/5/71	4/27/1	10/18/1	3/3/2		30212	A	7-31-9	800		4
LYKES N.O.				1	1	1	1	1	1	1		not issued to trade		HPX	820	-	5
M.A.(WASH)					1	1	1	1	1	1		30212	B	11-3-9	826	2	12
M.A.(YARD)		1	1	1	1	1	1	1	1	1		30212	B	12-12-9	829		
J.J.HENRY(YARD)		1	1	1	1	1	1	1	1	1		reissue to trade		✓	830		7
J.J.HENRY(HOME)					1	1	1	1	2	2		30212	C	4-15-0	841		3
ABS YD		1	1	1	1	1	1	1	1	1		30212	D	9-11	842		—
USCG YD		1	1	1	1	1	1	1	1	1		"	E	11-4-0	843		
USPHS					1	1		1	1	1		"	F	1-11-71	844		5
												"	G	4-28-1	899		
													H	10-18-1	LIBRARY		3
													J	3-3-2			
871		13	13	13	14	14	12	18	10	6							
872		6	6	6	3	2	2	2	-						835		1
873															812		1
874		1	1	1	—												
875															[illegible]		1
876		3	3	3	2	1	1	—									
LYKES MOB		1	1	1													
TPS 866		1	1	1	1	1			1	1							
HA Bldg 104					2	2	2	1	1	1							
TOTAL NRO'S FS		29	29	29	31	[illegible]	[illegible]	29	2	17							
TOTAL NRO'S HS							1		19								
TOTAL RO								2	21						TOTAL		48

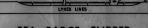
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G							

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
J 12/12/72

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
8	C&A-OUTBOARD PROFILE	30211-03X9	241-516-4-9
7	C&A-INBOARD PROFILE	30211-03X8	241-516-1-8
6	C&A & GEN ARR-FOCSLE POOP DK & ABOVE	30211-03X7	241-516-1-7
5	C&A & GEN ARR-UPPER DECK	30211-03X6	541-516-1-6
4	C&A & GEN ARR-CABIN DECK	30211-03X5	241-516-1-5
3	C&A & GEN ARR-MAIN DECK	30211-03X4	241-516-1-4
2	C&A TANKS BELOW LOWER DECK	30211-03X2	241-516-1-2
1	C&A-INNERBOTTOM & TOP OF INNERBOTTOM	30211-03X1	241-516-1-1

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
D	50	LATER	18, 19, 20

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
C	37	LATER	18, 19, 20
C	31		18, 19, 20
C	29		18, 19, 20
C	8-1		18, 19, 20
B	6	1	18, 19, 20
A	7	3	18, 19, 20

241-516-1-3 J 2

Q div DWG NO.	30211-03x3
DFTMN	A.A.
DSGNR	A.J. Smith
SUPV	[illegible]
ENGR	
APPROVED DATE	A. Jackson 9/5/9 FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED	
ABS	7-18-69
USCG	5-26-69
USPHS	6-11-69

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

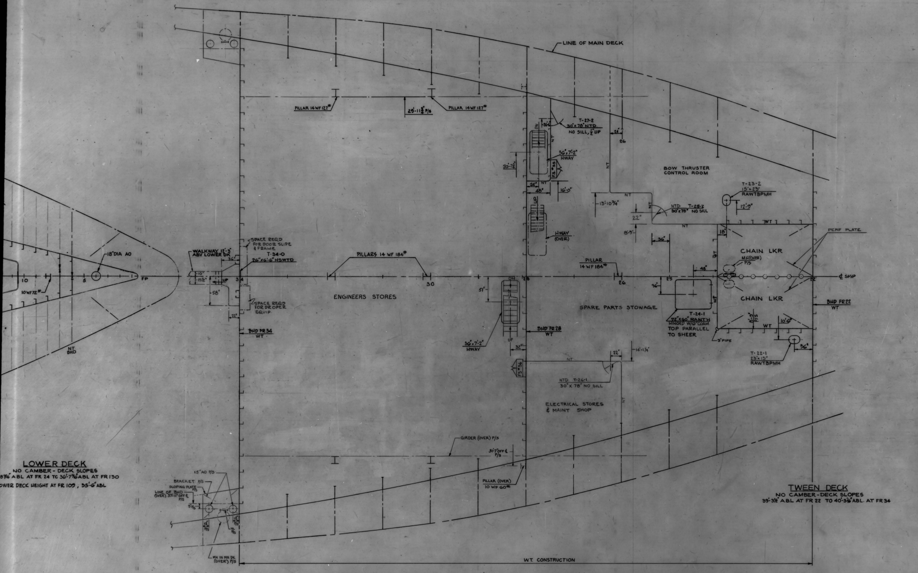
COMPT & ACCESS
LOWER DK & TWEEN DK

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-516-1-3	J

SCALE ¼ = 12" & AS NOTED
SHEET 1 OF 1
OWNER APPROVAL LTR DATED 4-24-69
KEY PLAN

AREA = 66.0 SQ FT

DWG. NO. 30211-03x3
Q div DWG NO. 30211-03x3
M.A. DWG NO. 241-516-1-3


LINE OF MAIN DECK
PILLAR 14 WF 127#
29'-11 3/4" P/S
PILLAR 14 WF 127#
T-27-2
30"x78" NTD
NO SILL, 1/2" UP
26'-6"
24"
26
NT
36"x7'-2"
HWAY
F.S. #55
20'-7 1/2"
24"
48"
16'-0"
UP
HWAY
(OVER)
BOW THRUSTER
CONTROL ROOM
13'-10 3/4"
NTD T-25-2
30"x78" NO SILL
22"
8'-9"
36"
T-23-2
15"x23"
RAWTBPMH
12'-9"
WT
18"
PERF PLATE
CHAIN LKR
MH (OVER)
P/S
CHAIN LKR
48"
22
℄ SHIP
BHD FR 22
WT
PILLAR
14 WF 184#
26
25
36"
T-24-1
72"x60" RANTH
HINGED W/6" COAM.
TOP PARALLEL
TO SHEER
3" PIPE
8'-9"
P/S
10'-6"
T-22-1
23"x15"
RAWTBPMH
36"
SPARE PARTS STOWAGE
18" DIA AO
10
5
1
FP
10 WF 72#
NT
BHD
WALKWAY 12'-3"
ABV LOWER DK
10"
15 1/2"
UP
34
58"
22"
SPACE REQD
FOR DOOR SLIDE
& FRAME
T-34-0
26"x6'-6" HSWTD
SPACE REQD
FOR DR OPER
EQUIP
BHD FR 34
WT
PILLARS 14 WF 184#
30
ENGINEERS STORES
DN
28
51"
36"x7'-2"
HWAY
32"
BHD FR 28
WT
FS #56
22"
14'-1 1/4"
NT
NTD T-26-1
30" X 78" NO SILL
ELECTRICAL STORES
& MAINT SHOP
GIRDER (OVER) P/S
31'-7" OFF ℄
P/S
PILLAR (OVER)
10 WF 60#
15" AO P/S
BRACKET P/S
SLOPING PLATE P/S
LINE OF BHD
(OVER) 37'-11" OFF ℄
P/S
9 1/16"
12"
P/S
VL
P/S
MH IN MN DK
(OVER) P/S
W.T. CONSTRUCTION
LOWER DECK
NO CAMBER - DECK SLOPES
8 7/16" ABL AT FR 24 TO 36'-7 11/16" ABL AT FR 130
OWER DECK HEIGHT AT FR 109, 35'-6" ABL
TWEEN DECK
NO CAMBER - DECK SLOPES
39'-3 1/2" ABL AT FR 22 TO 40'-3 1/16" ABL. AT FR 34

ABBREVIATIONS

ABL	ABOVE BASE LINE
ABT	ABOUT
ABV	ABOVE
AO	ACCESS OPENING
BEL	BELOW
BHD	BULKHEAD
℄	BASE LINE
BPMH	BOLTED PLATE MANHOLE
BRST HK	BREAST HOOK
C.D	COFFERDAM
CTR	CENTER
DBL	DOUBLE
DIA	DIAMETER
DK	DECK
DR	DOOR
EM	EXPANDED METAL
ENGRS	ENGINEERS
FD	FORCED DRAFT
FP	FORWARD PERPENDICULAR
FR	FRAME
HS	HORIZONTAL SLIDING
H WAY	HATCHWAY

GENERAL NOTE

~~1 EXACT LOCATIONS FOR CUTTING ALL ACCESS OPE~~
2. SIZES OF ALL HATCHES, MANHOLES, DOORS, ETC., REPR
3. CLEAR HEADROOM IN ACCOMMODATION, WORKING,
TOILET AND SHOWER SPACES. SHALL NOT BE LE
UNDER LOCAL POINTS SUCH AS DUCTS, PIPIN
BE LESS THAN 7'-3" IN THE ABOVE SPACES AN
OF INDIVIDUAL APPROVALS.
4. SILL AND COAMING HEIGHTS ARE FROM TOP OF

RESERVATIONS

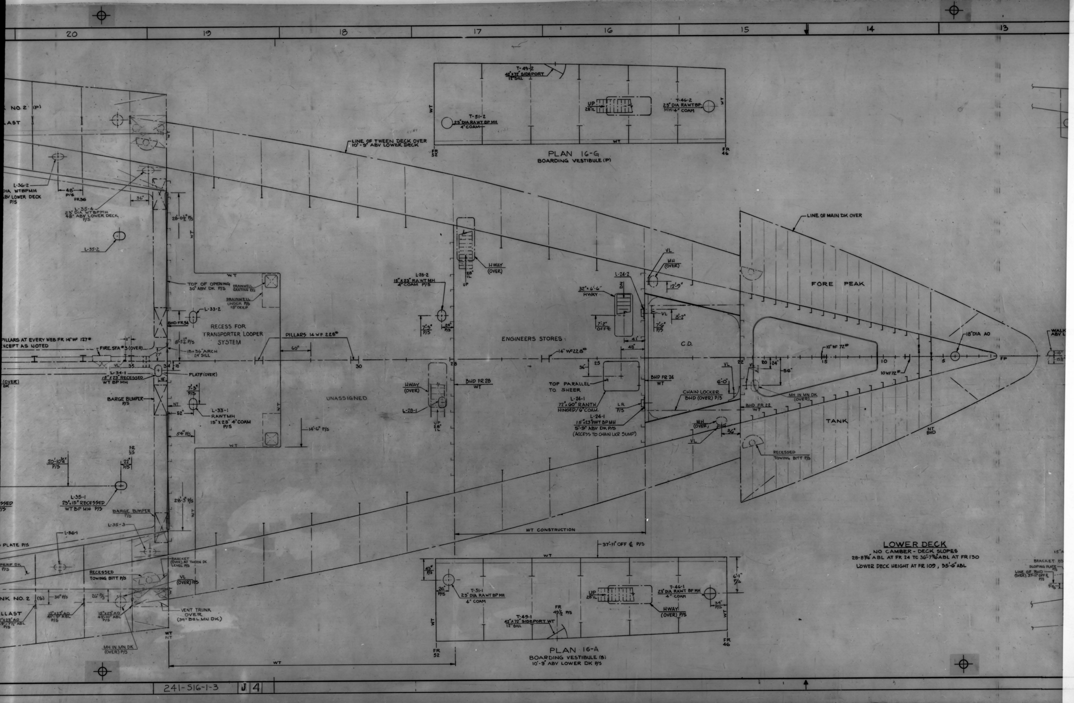
~~1. LOCATION & SIZE OF HWAY & ACCESS LADDER TO B~~
~~PENDING EQUIPT DEVELOP & FIRM ARR OF THRUS~~
~~2. SIZE & LOCATION OF CUTS FOR UPTAKES, VE~~
~~FR 70 - 82 P/S - PENDING DESIGN DEVELOPMEN~~
~~3. LOCATION OF GANIT ESC 5 - PENDING STUDY F~~
~~4. BARGE WINCHES & W T RECESSES FOR DOLLY~~
~~DEVELOP OF BARGE HDLG EQUIPT.~~
~~5. LOC OF MANHOLES & LDRS INTO CHAIN LKR, SUMP & V~~
~~FR 22-24 PENDING STRUCTURAL DEVELOP, C~~
~~6. "RESERVED SPACE FOR STABILIZER" BETW~~
~~DETERMINATION OF STABILIZER CONFIGURA~~
~~7. AREA IN WAY OF STERN GATES, INCLUDING RECE~~
~~OTHER BARGE HDLG EQUIPT PENDING DEVEL~~
~~8. LOC & SIZE OF ALL PILLARS & STANS LOWER DK. TO~~
~~STRUCTURAL DEVELOP OF AREA, FR 30-32.~~
~~9. STERN CONFIGURATION, AFT FR 125 P/S - P~~
~~GUIDANCE SYSTEM & BARGE FENDERING.~~
~~10. INDICATION OF ELEVATOR GUIDANCE SYSTEM~~
~~DEVELOPMENT.~~
~~11. FORE&AFT LOC OF MHS 5-64-1 & 5-66-2 PENDING~~
~~BHDS BELOW.~~
~~12. ELECTRICAL STORES & M.G. COMPARTMEN~~
~~13. ALL RECESSED TOWING BITTS P/S PENDING~~
~~14. CANTILEVER & ELEVATOR CONFIGURATION AFT~~
~~15. LOCATION OF MAIN LONG'L BHD BETWEEN FR~~
~~FR 31 PENDING DESIGN DEVELOPMENT.~~
~~16. ENGINEERS PLATE HOIST TRUNK LOCATION~~

241-516-1-3 | J | 3

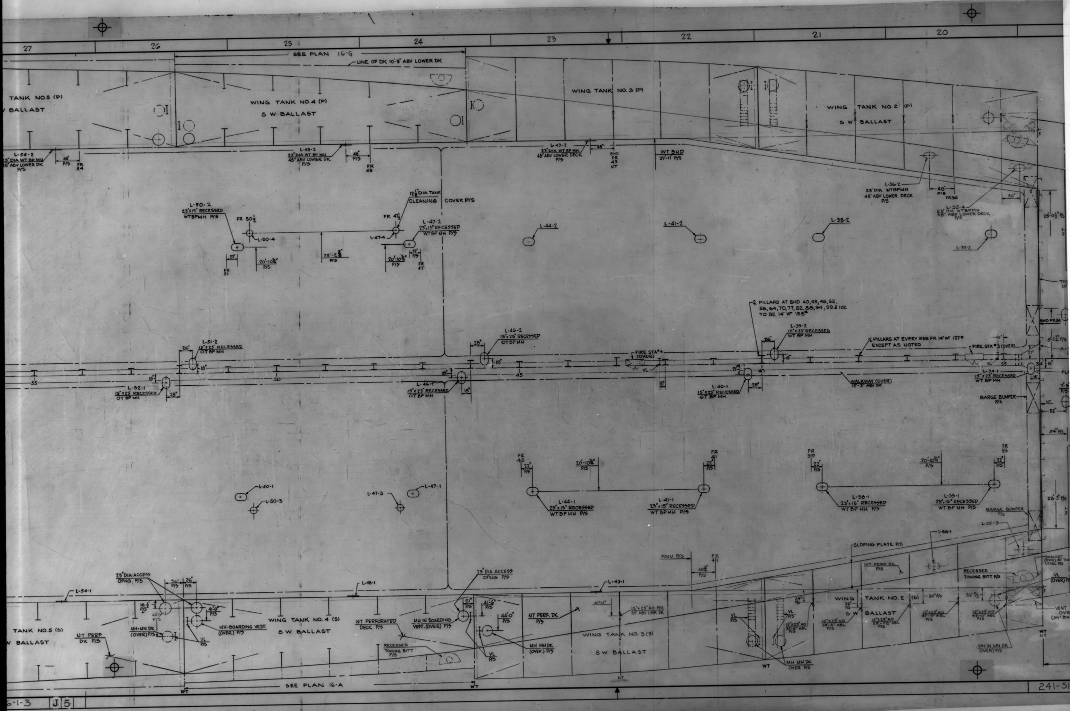
GENERAL DYNAMICS, QUINCY
MA NO. 241-516-1-3 GD NO. 30211-03x3
NOV, 1973 8X
FRAME 1 ② 3 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

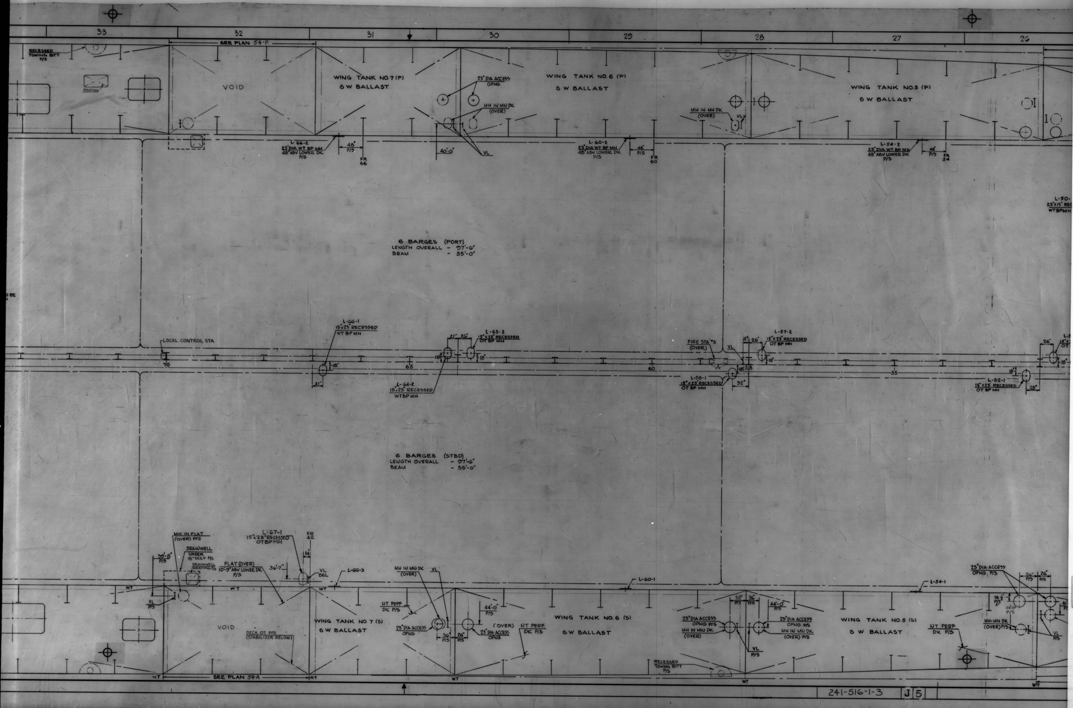
MA NO. 241-516-1-3 GD NO. 30211-03x3 FRAME 1 2 ③ 4



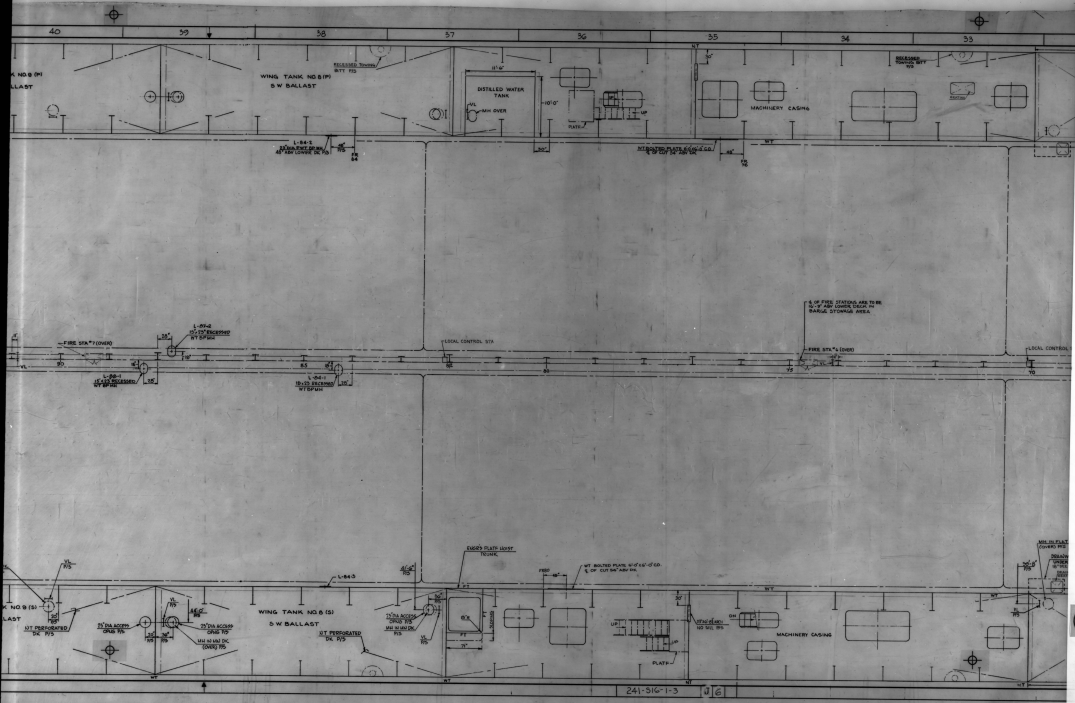
20
19
18
17
16
15
14
13
PLAN 16-G
BOARDING VESTIBULE (P)
T-49-2
42" x 72" SIDEPORT
12" SILL
T-46-2
23" DIA RAWTBP
MH-4" COAM
T-51-2
23" DIA RAWT BP MH
4" COAM
LINE OF TWEEN DECK OVER
10'-9" ABV LOWER DECK
LINE OF MAIN DK OVER
FORE PEAK
TANK
C.D.
ENGINEERS STORES
RECESS FOR
TRANSPORTER LOOPER
SYSTEM
UNASSIGNED
PILLARS 14 WF 228#
PILLARS AT EVERY WEB FR 14" WF 127#
EXCEPT AS NOTED
FIRE STA #3 (OVER)
BHD FR 28
WT
BHD FR 24
WT
BHD FR 22
WT
BHD FR 34
CHAIN LOCKER
BHD (OVER) P/S
TOP PARALLEL
TO SHEER
L-24-1
72" x 60" RANTH
HINGED/6" COAM.
L-24-1
15" x 23" WT BP MH
5'-9" ABV DK P/S
(ACCESS TO CHAIN LKR SUMP)
L-24-2
32" x 6'-6"
HWAY
L-28-2
15" x 23" RAWT MH
4" COAM P/S
L-28-1
HWAY
(OVER)
L-33-2
L-33-1
RAWTMH
15" x 23" 4" COAM
P/S
L-34-1
15" x 23" RECESSED
WT BP MH
PLATF (OVER)
18 x 36" ARCH
24" SILL
TOP OF OPENING
30" ABV DK P/S
DRAINWELL
GRATING P/S
DRAINWELL
UNDER P/S
18" DEEP
BARGE BUMPER
P/S
L-35-1
23" x 15" RECESSED
WT BP MH P/S
L-35-2
L-35-3
L-35-4
23" DIA WTBPMH
48" ABV LOWER DECK
P/S
L-36-1
L-36-2
DIA WTBPMH
ABV LOWER DECK
P/S
RECESSED
TOWING BITT P/S
VENT TRUNK
OVER
(39" BEL MN DK)
MH IN MN DK
(OVER) P/S
MH IN MN DK
(OVER)
RECESSED
TOWING BITT P/S
18" DIA AO
10" WF 72#
10 WF 72#
NT
BHD
FP
WT CONSTRUCTION
37'-11" OFF ℄ P/S
LOWER DECK
NO CAMBER - DECK SLOPES
28-8 7/16" ABL AT FR 24 TO 36'-7 9/16" ABL AT FR 130
LOWER DECK HEIGHT AT FR 109, 35'-6" ABL
PLAN 16-A
BOARDING VESTIBULE (S)
10'-9" ABV LOWER DK P/S
T-51-1
23" DIA RAWT BP MH
4" COAM
T-49-1
42" x 72" SIDEPORT WT
12" SILL
T-46-1
23" DIA RAWT BP MH
4" COAM
HWAY
(OVER) P/S
FR 52
FR 46
241-516-1-3
J 4


27
26
25
24
23
22
21
20
SEE PLAN 16-G
LINE OF DK 10'-9" ABV LOWER DK
TANK NO.5 (P)
W BALLAST
WING TANK NO.4 (P)
S.W. BALLAST
WING TANK NO.3 (P)
WING TANK NO.2 (P)
S.W. BALLAST
L-54-2
23" DIA WT BP MH
48" ABV LOWER DK
P/S
FR 54
L-48-2
23" DIA WT BP MH
48" ABV LOWER DK
P/S
FR 48
L-43-2
23" DIA WT BP MH
48" ABV LOWER DECK
P/S
BHD FR 43 NT
WT BHD
37-11 P/S
L-36-2
23" DIA WTBPMH
48" ABV LOWER DECK
P/S
FR36
L-35-4
23" DIA WTBPMH
48" ABV LOWER DECK
P/S
12 1/2" DIA TANK
CLEANING COVER P/S
L-50-2
23"x15" RECESSED
WTBPMH P/S
FR 50 1/2
L-50-4
FR 41 1/2
L-47-2
23"x15" RECESSED
WTBP MH P/S
L-47-4
L-44-2
L-41-2
L-38-2
L-35-2
FR 51
FR 47
23'-2 3/8"
20'-10 3/4"
℄ PILLARS AT BHD 40, 43, 46, 52, 58, 64, 70, 77, 82, 88, 94, 99 & 102 TO BE 14" WF 158#
℄ PILLARS AT EVERY WEB FR 14" WF 127# EXCEPT AS NOTED
L-45-2
15"x23" RECESSED
OT BP MH
L-39-2
15"x23" RECESSED
WT BP MH
L-51-2
15"x23" RECESSED
OT BP MH
L-52-1
15"x23" RECESSED
OT BP MH
L-46-1
15"x23" RECESSED
OT BP MH
L-40-1
15"x23" RECESSED
OT BP MH
L-34-1
15"x23" RECESSED
WT BP MH
FIRE STA #4 (OVER)
FIRE STA #3 (OVER)
VL
WALKWAY (OVER)
12'-3" ABV DK
BARGE BUMPER P/S
BHD FR 34
55
50
45
40
35
34
L-50-1
L-50-3
L-47-3
L-47-1
L-44-1
23"x15" RECESSED
WTBP MH P/S
L-41-1
23"x15" RECESSED
WTBP MH P/S
L-38-1
23"x15" RECESSED
WT BP MH P/S
L-35-1
23"x15" RECESSED
WT BP MH P/S
FR 45
FR 41
FR 38
FR 35
BARGE BUMPER P/S
L-35-3
L-36-1
SLOPING PLATE P/S
KNU P/S
NT PERF DK P/S
RECESSED TOWING BITT P/S
L-54-1
L-48-1
L-43-1
23" DIA ACCESS OPNG P/S
MH-MN DK (OVER) P/S
MH-BOARDING VEST. (OVER) P/S
NT PERF DK P/S
TANK NO.5 (S)
W BALLAST
WING TANK NO.4 (S)
S.W. BALLAST
NT PERFORATED DECK P/S
RECESSED TOWING BITT P/S
MH IN BOARDING VEST. (OVER) P/S
NT PERF. DK P/S
MH MN DK (OVER) P/S
15"x23" AO 50" ABV LWR DK
WING TANK NO.3 (S)
SW BALLAST
WING TANK NO.2 (S)
S.W. BALLAST
MH MN DK OVER P/S
MH IN MN DK (OVER) P/S
VL (OVER) P/S
VENT (OVER)
WT
NT
SEE PLAN 16-A
241-516
6-1-3
J5

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-516-1-3 GD NO. 30211-03x3 FRAME 1 2 3 ④


33
32
31
30
29
28
27
26
SEE PLAN 54-F
RECESSED TOWING BITT P/S
GRATING
VOID
WING TANK NO. 7 (P)
S W BALLAST
23" DIA ACCESS OPNG
MH IN MN DK (OVER)
WING TANK NO. 6 (P)
S W BALLAST
WING TANK NO. 5 (P)
S W BALLAST
VL
L-66-2
23" DIA WT BP MH
48" ABV LOWER DK
P/S
48"
FR 66
40'-0"
L-60-2
23" DIA WT BP MH
48" ABV LOWER DK
P/S
FR 60
L-54-2
23" DIA WT BP MH
48" ABV LOWER DK
P/S
FR 54
L-50-
23"x15" REC
WTBPMH
6 BARGES (PORT)
LENGTH OVERALL - 97'-6"
BEAM - 35'-0"
LOCAL CONTROL STA
70
65
60
55
L-66-1
15"x23" RECESSED
WT BP MH
L-64-2
15"x23" RECESSED
WTBP MH
L-63-2
15"x23" RECESSED
OT BP MH
FIRE STA #5 (OVER)
L-57-2
15"x23" RECESSED
OT BP MH
L-58-1
15"x23" RECESSED
OT BP MH
L-52-1
15"x23" RECESSED
OT BP MH
6 BARGES (STBD)
LENGTH OVERALL - 97'-6"
BEAM - 35'-0"
MH IN FLAT (OVER) P/S
DRAINWELL UNDER 18" DEEP P/S
DRAINWELL GRATING P/S
FLAT (OVER)
10'-9" ABV LOWER DK
P/S
36'-7"
L-67-1
15"x23" RECESSED
OTBPMH
FR 42
VL BEL
L-66-3
L-60-1
L-54-1
WT
VOID
WING TANK NO. 7 (S)
S W BALLAST
DECK OT P/S (STABILIZER BELOW)
NT PERF DK P/S
MH IN MN DK (OVER)
23" DIA ACCESS OPNG
44'-0" P/S
(OVER)
NT PERF DK P/S
WING TANK NO. 6 (S)
S W BALLAST
23" DIA ACCESS OPNG P/S
MH IN MN DK (OVER)
VL P/S
23" DIA ACCESS OPNG P/S
MH IN MN DK (OVER) P/S
WING TANK NO. 5 (S)
S W BALLAST
NT PERF DK P/S
23" DIA ACCESS OPNG P/S
MH-MN DK (OVER) P/S
RECESSED TOWING BITT P/S
SEE PLAN 54A
241-516-1-3
J 5

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-516-1-3 GD NO. 30211-03x3 FRAME 1 2 3 4
⑤ 6 7 8 9

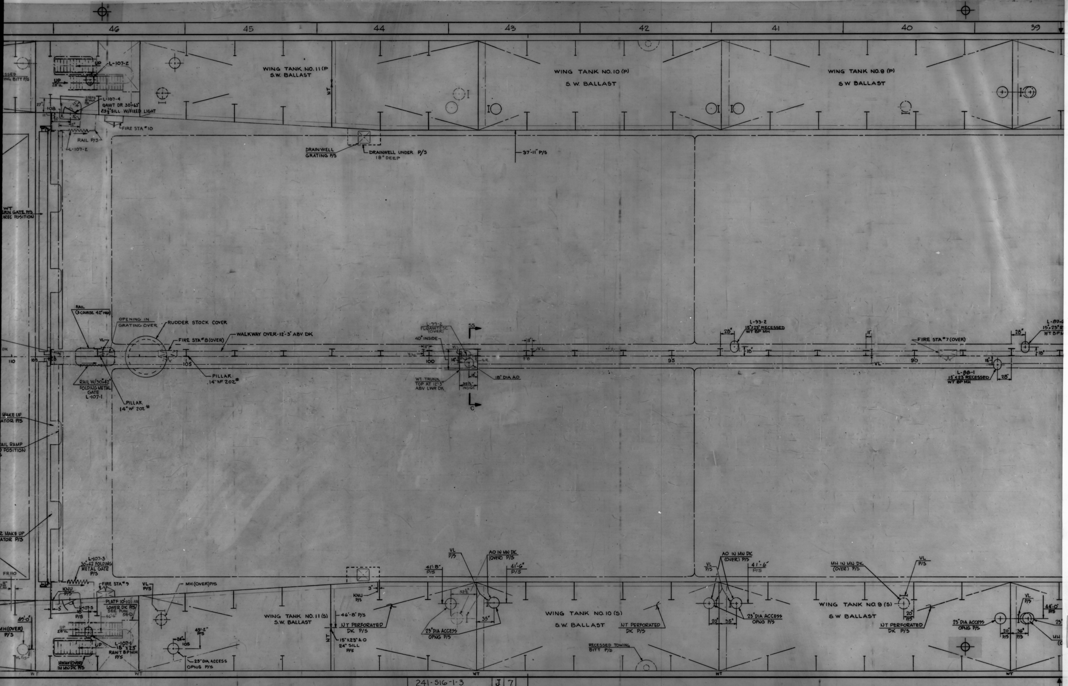


40
39
38
37
36
35
34
33
K NO. 9 (P)
LLAST
WING TANK NO. 8 (P)
S W BALLAST
RECESSED TOWING BITT P/S
DISTILLED WATER TANK
11'-6"
10'-0"
VL
MH OVER
PLATF
UP
NT
30"
MACHINERY CASING
RECESSED TOWING BITT P/S
GRATING
L-84-2
23" DIA PWT BP MH
48" ABV LOWER DK P/S
48"
P/S
FR 84
30"
WT BOLTED PLATE 6'-0" X 6'-0" C.O.
℄ OF CUT 54" ABV DK
48"
FR 76
WT
℄ OF FIRE STATIONS ARE TO BE 16'-9" ABV LOWER DECK IN BARGE STOWAGE AREA
L-87-2
15" x 23" RECESSED
WT BP MH
28"
18"
FIRE STA #7 (OVER)
11"
VL
90
85
18"
L-88-1
15" X 23" RECESSED
WT BP MH
28"
18"
L-84-1
15 x 23 RECESSED
WT BP MH
28"
LOCAL CONTROL STA
81/2
80
FIRE STA #6 (OVER)
11"
VL
75
LOCAL CONTROL S
70
VL
P/S
K NO. 9 (S)
LAST
20"
P/S
NT PERFORATED
DK P/S
25" DIA ACCESS OPNG P/S
VL
P/S
44'-0"
P/S
20"
P/S
36"
P/S
25" DIA ACCESS OPNG P/S
MH IN MN DK (OVER) P/S
WING TANK NO. 8 (S)
S W BALLAST
NT PERFORATED
DK P/S
WT
L-84-3
41'-6"
P/S
36"
P/S
25" DIA ACCESS OPNG P/S
MH IN MN DK P/S
VL
P/S
ENGR'S PLATF HOIST TRUNK
FT
8"R
FT
SLOPING
71"
FR 80
45"
WT BOLTED PLATE 6'-0" X 6'-0" C.O.
℄ OF CUT 54" ABV DK
WT
30"
UP
UP
PLATF
33" X 6'-8" ARCH
NO SILL P/S
DN
MACHINERY CASING
NT
MH IN FLAT (OVER) P/S
DRAINW
UNDER
18" DEE
30'-8"
P/S
VL
P/S
WT
WT
241-516-1-3
J 6

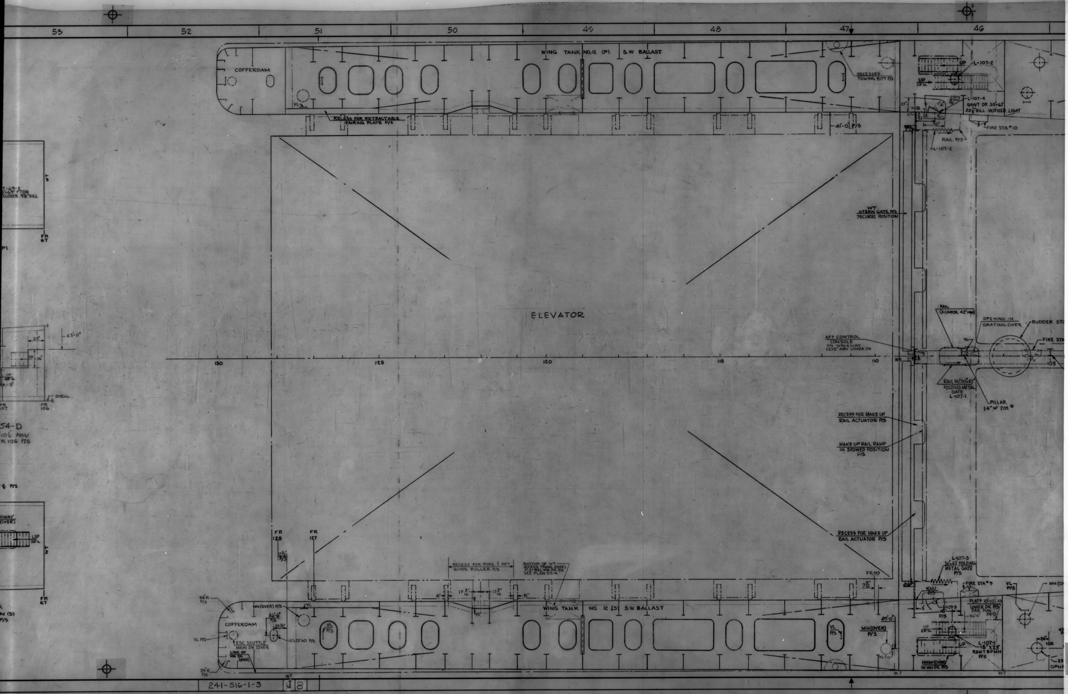
GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO. 241-516-1-3 GD NO. 30211-03x3 FRAME 1 2 3 4
5 ⑥ 7 8 9

GENERAL DYNAMICS, QUINCY
MA NO. 241-516-1-3 GD NO. 30211-03x3 NOV., 1973 8X
FRAME 1 2 3 4
5 6 ⑦ 8 9


46
45
44
43
42
41
40
39
WING TANK NO. 11 (P
S.W. BALLAST
WING TANK NO. 10 (P)
S.W. BALLAST
WING TANK NO. 9 (P)
S.W BALLAST
SSED
ING BITT P/S
UP
L-107-2
UP
28' IL
STEPS
8" HIGH
P/S
L-107-4
QAWT DR 30"x63"
23½" SILL W/FIXED LIGHT
27"
108
12"
42"
FIRE STA # 10
RAIL P/S
L-107-2
NT
DRAINWELL
GRATING P/S
DRAINWELL UNDER P/S
18" DEEP
37'-11" P/S
WT
ERN GATE P/S
IREC POSITION
RAIL
(3 COURSE 42" HIGH)
OPENING IN
GRATING OVER
RUDDER STOCK COVER
FIRE STA # 8 (OVER)
WALKWAY OVER-12'-3" ABV DK
VL
105
PILLAR
14" WF 202#
RAIL W/30"x42"
FOLDING METAL
GATE
L-107-1
PILLAR
14" WF 202#
110
L-99-2
FLQAWTESC
(OVER)
40" INSIDE
11"
V.L.
100
14"
G.R.
55
C
WT TRUNK
TOP AT 12'-3"
ABV LWR DK
18"
35½"
INSIDE
18" DIA AO
11"
V.L.
98
95
L-93-2
15"x23" RECESSED
WT BP MH
28"
18"
11"
VL
90
FIRE STA # 7 (OVER)
L-88-1
15"x23 RECESSED
WT BP MH
18"
28"
28"
L-87-2
15"x23" R
WT BP M
18"
MAKE UP
ATOR P/S
AIL RAMP
POSITION
R MAKE UP
ATOR P/S
FR 110
7 11/16"
L-107-3
30"x42 FOLDING
METAL GATE
P/S
FIRE STA # 9
KNU
P/S
3"
L-107-5
16"
P/S
PLATF 10'-10" ABV
LOWER DK P/S
SEE PLAN
54-D
46'-6"
49'-0"
MH (OVER)
P/S
VL P/S
UP
28' IL
UP
L-107-1
15"x23"
RAWT BPMH
P/S
HWAV (OVER)
IN MN DK P/S
VL
P/S
MH (OVER) P/S
24"
105
49'-2"
P/S
23" DIA ACCESS
OPNG P/S
WING TANK NO. 11 (S)
S.W. BALLAST
3"
KNU
P/S
46'-8" P/S
NT PERFORATED
DK P/S
NT
15"x23" A O
24" SILL
P/S
VL
P/S
41'-8"
P/S
AO IN MN DK
(OVER) P/S
41'-6"
P/S
52½"
35"
23" DIA ACCESS
OPNG P/S
WING TANK NO. 10 (S)
S.W. BALLAST
NT PERFORATED
DK P/S
RECESSED TOWING
BITT P/S
VL
P/S
AO IN MN DK
(OVER) P/S
41'-6"
P/S
20"
35"
23" DIA ACCESS
OPNG P/S
MH IN MN DK
(OVER) P/S
VL
P/S
WING TANK NO. 9 (S)
S.W BALLAST
20"
P/S
NT PERFORATED
DK P/S
23" DIA ACCESS
OPNG P/S
20"
P/S
36"
P/S
VL
P/S
44'-0"
P/S
MH
WT
WT
WT
WT
WT
241-516-1-3
J 7

73 74 75 76 77 78 79 80 81 82 83 7F 85 86 87 88 89 90 91 92 93 94 95 8F 97 98 99 100 101 102 103 104 105 106 107 9F 109 110 111 112 113 114 115 116 117 118 119

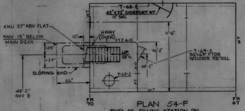

53
52
51
50
49
48
47
46
WING TANK NO. 12 (P) S.W. BALLAST
COFFERDAM
VL
RECESS FOR RETRACTABLE FAIRING PLATE P/S
RECESSED TOWING BITT P/S
41'-0" P/S
UP
L-107-2
UP 28 IL
L-107-4
QAWT DR 30"x63" 23 1/2" SILL W/FIXED LIGHT
FIRE STA #10
RAIL P/S
L-107-2
108
ELEVATOR
WT STERN GATE P/S SECURED POSITION
AFT CONTROL CONSOLE ON WALKWAY 12'-3" ABV LOWER DK
RAIL (3 COURSE 42" HIGH)
OPENING IN GRATING OVER
RUDDER STO
FIRE STA
105
RAIL W/30"x42" FOLDING METAL GATE L-107-1
PILLAR 14" WF 202#
130
125
120
115
110
RECESS FOR MAKE UP RAIL ACTUATOR P/S
MAKE UP RAIL RAMP IN STOWED POSITION P/S
RECESS FOR MAKE UP RAIL ACTUATOR P/S
FR 128
FR 127
FR 110
RECESS FOR FORE & AFT GUIDE ROLLER P/S
BOTTOM OF WT ACCESS TRUNK (OVER) SEE PLAN 55-A
L-107-3 30"x42" FOLDING METAL GATE P/S
FIRE STA #9
KNU P/S
WING TANK NO. 12 (S) S.W. BALLAST
MH (OVER) P/S
46'-6" P/S
COFFERDAM
VL P/S
ESC SCUTTLE MAIN DK (OVER)
LINE OF MN DK (OVER)
15"x23" AD P/S
24"R P/S
46"R P/S
46'-0"
MH (OVER) P/S
PLATF 10-101 LOWER DK P/S SEE PLAN 54-D
L-107-1 15"x23" RAWT BPMH P/S
HWAY (OVER) IN MN DK P/S
UP 28 IL
VL P/S
MH (OVER)
105
54-D
10 1/2" ABV FR 106 P/S
43'-11"
SHELL
FR 67
FR 106
FR 107
FR 67
WT
241-516-1-3
J8

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-516-1-3 GD NO. 30211-03x3 FRAME 1 2 3 4
5 6 7 ⑧ 9

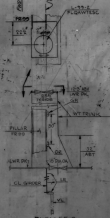
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-516-1-3 GD NO. 30211-03x3 FRAME 1 2 3 4 5 6 7 8 9

Zone	Rev	Description	Approval
47 55	E	1. PLAN REV. "D" APPROVED BY J.J. HENRY LTR FILE: 5589/516/JUM-442-70 DATED SEPT. 20, 1970. 2. PLAN REV. "D" APPROVED BY USCG LTR 5940/GENERAL DYNAMICS 18-20, 7 OCTOBER 1970. 3. DIMENSION ADDED FOR RELOC OF WEB FORWARD OF FR 110 P/S. 4. 1-ADDITIONAL GR ADDED TO PILLAR AT FR 99 & VERT. LAD. INDICATED BELOW LOWER DECK. SOURCE: ITEMS 3 & 4 TO SUIT J.J. HENRY LTR FILE: 5589/516/JUM-442-70 DATED SEPT. 20, 1970.	VDG 10/28/70
36A,G 47A,G 9D,E	F	1. PLAN REV "E" APPROVED BY J.J. HENRY LTR FILE: 5589/516/JUM-530-70 DATED NOV 23, 1970 2. PLAN REV "E" APPROVED BY USCG LTR 5940/GEN DYN 18-20 DATED DEC. 2, 1970 3. BOLTED PLATE ON LONGL BHD 37'-11" OFF ℄ RELOCATED FROM 48" AFT OF FR 74 TO 45" FWD OF FR 80 (STBD ONLY) 4. WEB INDICATED ON OUTBD SIDE OF LONGL BHD 40'-6" OFF ℄ AT FR 108 P/S 5. OUTBD STEP INWAY OF DRS L-107-4 & L-107-5 MODIFIED. 6. TWEEN DK - CORNER OF CHAIN LKR AT FR 24(S), ROUNDED BY ADDING 8" PIPE SOURCE: ITEMS 3, 4 & 5 DES. DEV ITEM 6 TO SUIT J.J. HENRY LTR FILE: 5589/516/JUM-530-70 DATED NOV 23, 1970 ITEM 3 THRU 6 INCL RELEASES ANDC# S-0469	A.J.V. 1/4/70 21 DEC 1970
16A 52A 52H	G	1. PLAN REV "F" APPROVED BY J.J. HENRY YARD REP. ON I.R.M. S-14-0420 DATED 20 DEC 1970. 2. PLAN REV "F" APPROVED BY USCG LTR 5940/GEN DYN DATED 28 JAN 1971. 3. RELOCATED 23" DIA RAWTBPMH TO 34" AFT FR 46, 6'-1" OUTBD OF 37'-11" LONG. BHD P&S TO CLEAR EXIST STR INTERFERENCE. 4. SPACE DESIGNATION AFT FR 128 P/S CHANGED FROM "UNASSIGNED" TO "COFFERDAM". SOURCE: ITEM #3 TO SUIT AEA S-0481. ITEM #4 DESIGN DEVELOPMENT.	1/21/70 4/23/71
46 32	H	1. PL. REV "G" APPD BY J.J.H. YD REP. I.R.M. S-14-0666, DATED 4-23-71. 2. F.S. #10 RELOC FROM FR 107 TO 12" FWD FR 107(P). 3. M.H. L-67-1 ADDED. SOURCE: ITEM #2 TO SUIT 872 DEPT I.R.M. DATED 6-28-71. ITEM #3 INCORP. AEA-S-0555.	VDG APPROVAL NOTED ON AEA S-0558
20,22,28 34,40,43 44	J	1- V.L. BET LOWER DK & WALKWAY AT FRS 35, 42, 58, 74, 91, 98 & 100 CORRECTED FROM FORE & AFT TO ATWARTHSHIP. SOURCE: TO SUIT AEA NO S-0984 LYKES.	A.J.V.

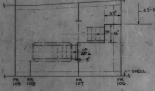
Zone	Rev	Description	Approval
49 A&H 9,11,12 D 11,12 & E 17-D 18-D 19-D 19-B,F 7-B 14-D	C	52. WT ACCESS TRUNK & ARCHWAY (OVER) ADDED AFT BHD 119 P/S. 53. PILLARS TWEEN DK FR 26, 30 & 32 ℄ CHANGED FROM 14 WF 136# TO 14 WF 184# & LOCATED WITH FWD FLANGE ON THE FRAME, & PILLARS OUTBD AT FR 30 & 32 RELOCATED TO 25'-11¾" P/S (DIMENSIONED TO INBD FLANGE) & SIZE CHANGED FROM 14 WF 136# TO 14 WF 127#. 54. PILLARS LOWER DK FR 26, 30 & 32 ℄ CHANGED FROM 14 WF 158# TO 14 WF 228# & LOCATED WITH FWD FLANGE ON THE FRAME, PILLAR FR 8 ℄ CHANGED FROM 10 WF 49# TO 10 WF 72#, & INDICATION OF PILLARS LOWER DK OUTBD AT FR 32 P/S DELETED. 55. RESERVATION NO 8 RELEASED. 56. NT BHD RELOCATED FROM FR 5 TO FR 6. SOURCE: ITEM 1-8 TO SUIT CC 81. ITEM 9-10 TO SUIT DESIGN DEVELOPMENT. ITEM 13-25, 26, 27, 30, 32-34, 36-37, 39-40, 42-44, 46, & 48-51 TO SUIT DESIGN DEVELOPMENT. ITEM 31 TO SUIT ABS REQ'S IN ACCORDANCE WITH COMMENT PRINT & LTR'S OF 30 SEPT & 27 OCT 69. ITEM 17 & 44 TO SUIT JJ HENRY LTR 5589/516/AHS-441-69 OF 15 DEC 69. ITEM 45 TO SUIT CORRECTION. ITEM 11, 12, 38, 41, & 47 TO SUIT GD, JJ HENRY, MARAD, & LYKES CONFERENCE OF 2/5/70 & 2/6/70. ITEM 52 TO SUIT CC# 29. ITEM 53, 54, & 55 TO SUIT STRUCTURAL DEVELOPMENT IN ACCORDANCE WITH CC# 31. ITEM 56 TO SUIT CC# 37. ITEM 35 TO SUIT HULL DESIGN AND ENGINEERING NO 5 IN GD, JJ HENRY, MARAD & LYKES CONFERENCE OF 22 & 23 JAN 1970 FILE NO 320A/SM-13/DPEC-01055 DATED 10 FEB 70.	
4F 9-D&E 8C&F 9E&F 10C 10F 10C&E 7F 12B&C 12E 14&15D&E 15D 14B&G 15C,16E 19E 47A&H 16D&F 18D 19D&E 19 23A&H 26B&G 32A&H 33&37D 46B&G 46D&G 46B,D&G 46 47A&H, 51A&H 47A&H 47A&H 49B&G 49A&H, 50A&H& 51A&H 52A&H 52A&H 52A&H 54F&G 19A&G 43D&E 44E 55-C,D&E	D	1. PLAN REV "C" APPROVED BY J.J. HENRY CO; INC. LTR FILE: 5589/516/AHS-267-70 DATED 7 MAY 1970. 2. REVISION "C" ITEM #12 REVISED. 3. RADIUS CORNERS AT INTERSECTION OF BHD 24 & WT BHDS 8'-9" OFF ℄ P/S DELETED & CORNERS SQUARED-OFF. 4. SIZE ADDED TO RAWTBPMH NO. T-22-1 & T-23-2. 5. BOUNDARY BHDS TO "BOW THRUSTER CONTROL ROOM" & "ELECTRICAL STORES & MAINT. SHOP" CHGD FROM E.M. TO N.T. & REV. NTD T-25-2 & T-26-1 LOC REV FROM 19" TO 22" 6. BHD STIFF INDIC TO LONG. BHD 16'-0" OFF ℄ (P) FWD FR 28, TWEEN DK. 7. FS #56 RELOC FROM AFT SIDE BHD 28(P) TO AFT SIDE BHD 28(S). 8. H.S. ADDED TO ABBREVIATIONS COLUMN. 9. BOUNDARY BHDS TO FAN ROOM BET FRS 31 & 34(S) & N.T. DOOR T-33-1 DELETED. 10. DIMENSIONS ADDED TO WALKWAY 12'-3" ABV LWR DK & PLATF AFT FR 34. PLATF REV TO SUIT SPACE REQ AS INDIC FOR SLIDING DR T-34-0 11. INDICATION OF DECK OPENINGS BET FRS 10 & 21 REVISED. 12. MH IN DECK (OVER) FWD FR 22(S) RELOC TO 28" FWD FR 22, 56" OFF ℄ (S) & MH (OVER) FWD FR 35 RELOC TO 24" AFT FR 35, 40'-2" OFF ℄ P/S. 13. VL FWD FR 22(S) RELOC TO 35" FWD FR 22, 24" OFF ℄ (S), VL FWD FR 24(P) RELOC TO 14" FWD FR 24, 8'-2" OFF ℄ (P), VL 18" AFT FR 35, 5" OFF ℄ ADDED & VL 15" AFT FR 109 RELOC TO 12" AFT FR 109, 49'-0" OFF ℄ P/S. 14. DECK PLATING EXTENDED 6" FWD FR 24 & BRKTS REVISED P/S. 15. DOOR L-31-1 DELETED FROM TRANSV BHD 60" AFT OF FR 31 & 18"x36" ARCH WITH 24" SILL ADDED TO BHD FR 34 27" OFF ℄ (P). 16. NOMENCLATURE OF COMPT, 60" AFT FR 31 TO BHD 34 P/S INDICATED AS "RECESS FOR TRANSPORTER LOOPER SYSTEM". 17. BHD FR 34 DESIGNATED AS WT & NT. 18. ADDED 15"x23" AO, 47'-11" OFF ℄ 50" ABV DK IN BHD 43 & BHD TIGHTNESS ADDED TO SUIT. 19. 23" DIA AO 39'-3½" OFF ℄ RELOCATED FROM 32" TO 36" AFT FR 52. 20 IN VOID BET FR 67 & 70 P/S, DK AREA NOTED, "DECK OT P/S (STABILIZER BELOW)." 21. LOCAL CONTROL STATIONS INDICATED AT WEB OF ℄ STANCHIONS (P) FRS 70 & 82. 22. DRAINWELL GRATING AFT FR 101 RELOC TO 32½" AFT FR 101, 36'-7" OFF ℄ P/S. 23. FIRESTATION #9 (S) & #10 (P) RELOCATED FWD OF FR 107. 24. FOLDING METAL GATE L-107-3 & L-107-2 EXTENDED FWD TO 6" AFT FR 107. 25. ARROW INDICATION ADDED FOR DIRECTION OF FOLDING METAL GATE L-107-1, L-107-2 & L-107-3. 26. RECESS FOR MAKE-UP RAIL ACTUATOR REVISED FR 108 P/S. 27. WEB FR 110 RELOCATED FROM FR 110 TO 7 1/16" FWD FR 110 P/S & BHD 24 13/16" FWD FR 128 RELOC TO 17 3/16" FWD FR 128 P/S. 28. INDIC OF RECESSED TOWING BITT RELOC FROM FR 109½ TO 29" AFT FR 111 P/S. 29. INDIC OF MH OVER 29" AFT FR 109 RELOC TO 25" AFT FR 109, 49'-0" OFF ℄ P/S. 30. ACCESS TRUNK OVER AFT FR 119 ADDED, NOTES MOD & PLAN 55-A ADDED TO SUIT. 31. DECK OPENING REVISED IN CANTILEVER P/S BET FR 119 & FR 120 & FR 124-126. 32. ESCAPE SCUTTLE MAIN DK (OVER) RELOC FROM AFT FR 128 TO 30" FWD FR 130, 45'-6" OFF ℄ P/S & VL RELOC FROM AFT FR 128 TO 17" FWD FR 130, 45'-6" OFF ℄ P/S. 33. RELOC STIFF CANTILEVER FR 130 P/S 34. COMPT BET BHD 17 3/16 FWD FR 128 & END OF CANTILEVER LABLED "UNASSIGNED". 35. FT AO BHDS & FT DR T-69-2 ADDED AROUND 1.L. UP AT FO FILLING STA FR 69-70 (P) & SILL HEIGHT FOR SIDEPORT T-68-2 ADDED. 36. VENT TRUNK INDIC AFT FR 34 OUTBD 37'-11" LONG BHD P/S. 37. RAWTQAS L-99-1, 18" AFT FR 99, 14" OFF ℄ (S) DELETED AND REPLACED WITH 18" DIA AO. ADDED WT TRUNK FR 99 TO 35½" AFT FR 99 P/S FROM LWR DK TO 12'-3" ABV LWR DK & FLWTQAS L-99-2 ADDED AT TRUNK TOP 22½" AFT FR 99, 12'-3" ABV LWR DK. VL 18" FWD FR 97(P), 18" FWD FR 100 (P) & VL IN LINE WITH SCUTTLE L-99-2 OVER & ELEV 55-C ADDED TO SUIT. SOURCE: ITEM #3 PLAN CORRECTION ITEM #4 THRU 36 DESIGN DEV. ITEM #37 G.D. CC#50	8/29/70



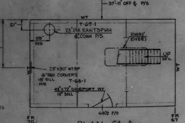
PLAN 54-F
FUEL OIL FILLING STATION (P)



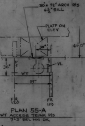
ELEV 55-C
LKG FWD
½" = 12"



PLAN 54-D
PLATF AT 10'-10½" ABV LOWER DK AT FR 106 P/S



PLAN 54-A
FUEL OIL FILLING STATION (S)
10'-9" ABV LOWER DECK P/S



PLAN 55-A
WT ACCESS TRUNK P/S
7'-3" BEL MN DK

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S16-1-4 GD NO. 30211-03×4 FRAME ① 2 3 4

7	6	5	4	3	2	1

CESS FOR RAIL RAMP MODIFIED RES# 4
O SUIT.
OF WALKWAY OVER IN BARGE AREA
TO SUIT STRUCT DEV.
AY OF GATES M-107-2 & M-107-3 MODIFIED.
ONG BHDS AFT OF BHD 40 P/S MOVED AFT
STRUCTURE.
BHD 69-71(P) LOCATED AT 46'-5" OFF ℄
DED & J. DRS MODIFIED TO SUIT.
NG ON BHD 71(P) MOVED FWD TO CLEAR STRUCT.
~~D FROM DOOR WATCHMANS STA AFT FR 47 P/S.~~
6 4 & 5 TO SUIT J.J.HENRY APPROVAL LTR
TAN 5,1970 FILE: 5589/S16/AHS-4-70
S 6 & 7 CONFS OF 12/3/69 & 1/7/70 C.C.#8.1
M 8 C.C.#29
9 C.C.#31
10 C.C.#39
S 11 TO 16 INCL CONFS OF 12/3/69, 2/6/ & 2/6/70
JJH LTR OF NOV 4, 1969 FILE: 5589/S16-1/AHS-386-69
18 TO 58 INCL DES. DEV.
" APPROVED BY J.J.HENRY
1,1970, FILED 5589/S16

P MKD "A-O" & LONG BHD FRS 58-69 FORMING THE
RY OF STATEROOMS MKD B-O & B ADDED TO ABBREVS.
NCLOSURE DOORS AT FRS 59P & 68P INDICATED AS
RS.
W STATEROOMS FRS 58 TO 69P MODIFIED TO SUIT JOINER
R16 RELOCATED.
INDICATED IN CREW T/S SPACES FRS 59 TO 69P & ADDED
ABBREVS.
UIP IN ROPE LKR DAB & DAC FR 51 P/S MODIFIED &
ATED IN ROPE LKR DX FR 19℄, LKR DY FR 42S,
DAD & DAE AT FR 89 P/S & ROPE LKRS DAF & DAG
IP IN TRANSPORTER MAINTENANCE SHOP AT FR 30℄
S 56,128 & 129 P/S RELOCATED, CHOCKS AT FRS 120, 121
MODIFIED. LOC OF FAIRLEADS AT 116S, 120 P/S,
/S RELOCATED. SCUTTLES M-128-1 & 2 RELOCATED
ED M-129-1 & 2.
EV "C" DELETED (SEE ITEM 21 REV "B").
G LONG PASSAGE BHD AF FR 68½ P CHGD FROM
TO SUIT JOINER ARGT.
V "C" CLARIFIED.
O JOINER DOORS TO WATCHMANS STA AT FR 47 P/S.
TION OF ITEM 58 AT REV "C" DELETED TO SUIT.
T & KEROSENE RM ADDED FR 81 P & DOOR M-81-2 ADDED
ED FOR WT DR M-69-1
RTS ADDED FR 130 P/S, RES 16 DELETED TO SUIT.
WD OF FR 90 & VL MOVED OUTBD.
STAS AT 107 P/S MOVED AFT. LOC OF STEPS
DOORS M-107-4 & 5 MOVED AFT TO CLEAR.
RAIL AT FOOT OF INCL LADDER AT FR 77 P MODIFIED
T END OF TRK AT FR 70½ S CHGD FROM 37½" TO 34¼".
4 RELEASED & GEN NOTE 6 ADDED.
N FAN RM FR 34 TO 40 P/S CHGD TO PASSAGE
ED FRS 34-35 P/S MHS M-34-1 & M-34-2 MOVED
LEAR & RENUMBER M-35-1 & M-35-2
S 62-63(P) RELOCATED.
RES ADDED INWAY OF CHOCKS FRS 10 TO 28 P/S
2, M-21-1 & 2, M-24-1 & 2, M-25-3 & 4, M-26-3 & 4
ADDED TO SUIT.
M-27-1 & M-27-2 ADDED TO THIS REV (INADVERTANTLY
2 U.S.C.G. LTR OF JUNE 10,1970
3 TO 12 INCL J.J. HENRY LTR OF JUNE 1,1970
5589/S16/AHS-257-70
13,15 TO 25 INCL DES DEV
14 U.S.C.G. LTR 5940/GEN DYN 7/24/70
APP'D BY J.J.HENRY
/S16/JUM-440-70
29,1970.
" APP'D BY U.S.C.G. LTR 5940/GENERAL DYNAMICS
TOBER 1970.
EW S.R. FRS 58-66(P) REVISED.
OF GRATINGS ADDED IN ROPE LKRS DAE, DAD, DAG & DAF.
REV. D" FR 78½(S) CORRECTED TO FR 70½(S).
N WORKBENCH IN TRANSPORTER MAINTENANCE
ALLON OIL TANK & REMOTE HAND PUMP ADDED
(P).
ELOC FROM BET FRS. 31-32(P) AT SHELL TO FWD
34(S).
: ITEM 3-7 INCL TO SUIT J.J.HENRY LTR., FILE: 5589/
S16/JUM-440-70 DATED SEPT. 23,1970.
APP'D BY JJH
16,1970, FILE: 5589
-565-70
" APP'D BY USCG LTR 5940 GEN DYN OF DEC. 2, 1970
OF DESK IN WATCHMANS STA FR 48 S CHGD FROM
ST & BRAKE ASSY ADDED FWD OF FR 82 S.
MINALS IN ENGRS PAINT & KEROSENE RM FR 82 P
QUIPMENT IN RM REARRANGED TO SUIT. VT ADDED
VATION LIST.
G IN CREWS LAUNDRY DELETED
CREWS LAUNDRY REVISED
TINGS IN LINEN LKR & STEWARDS STRS FRS 69-71 P
N ROPE LKRS AT FRS 51 P/S, 89 P/S & 110 P/S MKD AL.
TO ABBREVATION LIST
LASS. ADDED FOR BHDS OF ENGR'S PAINT & KEROSENE
2 P., ACCESS TRUNK FR 69-34¼ FWD FR 71(S).
BHD 37'-11" OFF ℄ BET FR 56-71 P ONLY.
E: ITEM 3 JJ HENRY LTR, DEC 16, 1970, FILE: 5580/S16/
JUM-565-70.
ITEM 4 DEPT 872 DEPT IRM 514-0366 OF 11/5/70.
" 5 VENT DIAGRAM CHG 873-08-389.
" 6 CONF OF OCT 7,1970.
" 7 LAUNDRY ARR PL 30316130.
" 8. 30573-82×2, MA# 241-514-01-03.
" 9. " " 82×1 " " " " -01.
" 10 TO SUIT GD/Q SK 30H-21-2 REV "B" & USCG REQ.
ITEMS 4 & 5 RELEASES AND C S-0476.
INDICATED OVER IN TRANSPORTER MAINT SHOP FR 28 TO 34 P/S.
K 42'-6" OFF ℄ & 6" FWD FR 33 (S) RELOCATED TO
℄ & 6" FWD FR 29 (S). SOURCE: IRM# 514-0426

ABBREVIATIONS

A	FIRE RETARDENT BHD, STEEL.
AP	AFT PERPENDICULAR
ABL	ABOVE BASE LINE
ABT	ABOUT
ABV	ABOVE
AO	ACCESS OPENING
AL	ALUMINUM
BR	BOOK RACK
BEL	BELOW
BHD	BULKHEAD
℔	BASE LINE
BPMH	BOLTED PLATE MANHOLE
B	FIRE RETARDENT BHD, INCOMBUSTIBLE
CL	CLEAR
℄	CENTER LINE
C.HTR	CONVECTOR HEATER
DIA	DIAMETER
DK	DECK
DR	DOOR
ENGRS	ENGINEERS
FT	FUME TIGHT
FP	FORWARD PERPENDICULAR
FR	FRAME
FWD	FORWARD
HWAY	HATCHWAY
ID	INSIDE DIAMETER
KNU	KNUCKLE
LKR	LOCKER
MH	MANHOLE
MN	MAIN
MJ	METAL JOINER
NT	NON TIGHT
OPNG	OPENING
P	PORT
PLATF	PLATFORM
RAQAWT	RAISED QUICK ACTING WATER TIGHT
S	STARBOARD
STA	STATION
S.W.	SALT WATER
SH	SHOWER
SS	SERVICE SINK
T/S	TOILET & SHOWER
TYP	TYPICAL
V.L.	VERTICAL LADDER
VT	VENT TERMINAL
W.T.	WATER TIGHT

GENERAL NOTES

1. ~~EXACT LOCATION FOR CUTTING ALL ACCESS OPENINGS SHALL BE TAKEN FROM STRUCTURAL PLANS.~~
2. SIZE OF ALL HATCHES, MANHOLES, DOORS, ECT. REPRESENT CLEAR OPENING
3. CLEAR HEADROOM IN ACCOMMODATIONS, WORKING, NAVIGATION SPACES, PASSAGEWAYS, TOILET AND SHOWER SPACES SHALL NOT BE LESS THAN 7'-6" CLEAR HEADROOM AND UNDER LOCAL POINTS SUCH AS DUCTS, PIPING, LIGHTS, GIRDERS, ETC. SHALL NOT BE LESS THAN 7'-1" IN THE ABOVE SPACES.
4. SILL AND COAMING HEIGHTS ARE FROM TOP OF STEEL DECK TO CLEAR OPENING.
5. JOINER BULKHEADS IN HABITABLE AREAS SHALL BE LOCATED TO PROVIDE EQUAL AREA FOR ALL CREW.
6. WHERE BHDS AND/OR LININGS ARE INDICATED AS JOINER, THE OVERHEAD OF THE SPACE SHALL HAVE A JOINER CEILING.

RESERVATIONS

1. ~~ALL MOORING WINCHES P/S FWD FR 28 PENDING DESIGN DEVELOPMENT OF MOORING & WARPING ARR.~~
2. ~~BARGE WINCHES & WT RECESSES FOR DOLLY P/S - PENDING DEVELOPMENT OF BARGE HANDLING EQUIPMENT.~~
3. ~~SIZE & LOCATION OF CUTS FOR UPTAKES, VENT, ACCESS, ETC IN MCHY CASING FR 70-82 P/S PENDING DESIGN DEVELOPMENT OF MACHY SPACE ARR.~~
4. ~~AREA IN WAY OF STERN GATES INCLUDING RECESS FOR SHEAVES, MAKE UP RAMP, AND OTHER BARGE HANDLING EQUIPMENT PENDING DEVELOPMENT OF BARGE HANDLING.~~
5. ~~LOCATION OF BULKHEAD INDICATED AT ABOUT 33" FWD FR 43 P/S - PENDING RESOLUTION OF CONFLICT BETWEEN CONTRACT PLAN 5382-S8-1 GEN ARR MN DK & BELOW, & CONTRACT PLAN 5382-S11-3 DECK SCANTLINGS.~~
6. ~~STERN CONFIGURATION, AFT FR 125 P/S - PENDING DEVELOPMENT OF ELEVATOR GUIDANCE SYSTEM & BARGE FENDERING.~~
7. ~~PASSAGE FRS 58 TO 71 STBD, PENDING DEVELOPMENT FOR POSSIBLE LOCATION OF BARGE TRANSPORTER MOTOR GENERATOR ROOM.~~
8. ~~ARCHWAY IN BHD 77 P/S, PENDING STRUCTURAL DEVELOPMENT OF BHD.~~
9. ~~LOCATION OF STANS FR 8 & 14 PENDING STRUCTURAL DEVELOPMENT~~
10. ~~INDICATION OF ELEVATOR GUIDANCE SYS & BARGE FENDERING PENDING DESIGN DEVELOP~~
11. ~~INDICATION OF WATERTIGHT CLOSURES FOR ALL MOORING FITTINGS, OPENINGS & BOW CHOCKS FWD FR 28 - PENDING DESIGN DEVELOPMENT.~~
12. ~~CANTILEVER & ELEVATOR CONFIGURATION AFT FR 109 - PENDING DESIGN DEVELOPMENT.~~
13. ~~ENGINEERS PLATFORM HOIST - PENDING DESIGN DEVELOPMENT.~~
14. ~~INDICATION OF BITTER-END FITTING PENDING RIGGING DEVELOPMENT.~~
15. ~~SPACING FOR FOOTHOLES IN DIVISIONAL BHD OF CHAIN LKR PENDING STRUCT DEVELOPMENT.~~
16. ~~VIEWING PORTS P/S AFT END OF CANTILEVER FR 130 PENDING MOORING ARRGT DEV.~~

ZONE	LTR	REVISIONS DESCRIPTION	Q DIV DATE	Q DIV APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
14C,D,E,F		18. BARGE WINCHES DELETED.						
11D,E 18A 20A,H 22AH 36AH 43AH		19. LOCKERS REDESIGNATED AS FOLLOWS: ROPE LKR FWD (DX), LKR FR 42 S (DY) OFFICER BAGGAGE (DZ), SLOP CHEST STORES (DAA) ROPE LKRS FR 50-52 (S) (DAB) PORT (DAC) ROPE LKRS FR 88-89 (S) (DAD) PORT (DAE) ROPE LKRS FR 110-112 (S) (DAF) PORT (DAG)						
43AH		20. DOOR NO. M-112-1 & M-112-2 RELOCATED FROM 7'-6" OUTBD OF MN LONG'L BHD TO 8'-5½" OUTBD OF MN LONG'L BHD P/S						
12D		21. HATCH M-24-1 RELOCATED FROM 37" OFF ℄ (S) TO 36" OFF ℄ (S).						
42C 16C		22. DIMENSION TO ℄ OF BARGE & TRANSPORTER CHANGED FROM 19'-4" OFF ℄ P/S TO 19'-5" OFF ℄ P/S.						
35H	B	23. PORTION OF NT BHD 48" AFT FR 88 (P) DELETED & BHD ADDED BET FR 88 & ROPE LKR BHD AT 49'-5½" OFF ℄						
13D,E 42A,H		24. SILL HEIGHTS CHANGED TO 23½" & STEPS ADDED IN WAY OF THE FOLLOWING DOORS M-27-0, M-107-4 & M-107-5						
		SOURCE: ITEM 1-9 TO SUIT JJ HENRY LTR 5589/S16/AHS-279-69 OF 20 AUG 69. ITEM 4 & 5 TO SUIT JJ HENRY LTR 5589/S16/AHS-293-69 OF 29 AUG 69. ITEM 10-17 TO SUIT DESIGN DEVELOPMENT & ERECTION PROCEDURE. ITEM 18 & 19 TO SUIT JJ HENRY LTR 5589/89/AHS-336-69 OF 3 OCT 69. ITEM 20, 21, & 24 TO SUIT DESIGN DEVELOPMENT. ITEM 22 TO SUIT DESIGN CONFERENCE REVIEW LTR 320A/AGS/S69-11/TAR/ME 2995 OF 24 JUNE 69. ITEM 23 TO SUIT PIPING DESIGN DEVELOPMENT. ITEM 24 TO SUIT ABS LTRS OF 30 SEPT 69 & 27 OCT 69.						
		1. REV "B" APPROVED BY J.J. HENRY LTR OF JAN 5,1970 FILE: 5589/S16/AHS-4-70	RS					
		2. REV "B" APPROVED BY ABS LTR OF JAN 15, 1970						
		3. REV "B" APPROVED BY USCG LTR OF DEC 17, 1969						
11,46		4. CHOCKS AT FRS 20 & 121 REVISED.						
13,18,20,28 31,32,35 & 42		5. WIDTH OF LADDERS & HANDRAILS ADDED AT FRS 27P, 29S, 41P/S, 47P/S 68S, 69P, 78P/S, 89 P/S & 107 P/S.						
47,48		6. HOOK AT AFT END OF CANTILEVER FRS 126-130 P/S ELIMINATED & STIFFS RELOCATED TO SUIT.						
43,46,47, 7		7. FWD & AFT ELEVATOR ROLLERS AT FR 110 & 127 P/S REPLACED BY A ROLLER AT FR 122 P/S. INBD BHD RECESSED & RES# 10 & 12 DELETED TO SUIT. A.O. AT 121½ RELOCATED TO 124½ TO SUIT.						
45,46		8. A.O. IN DK & RAILS ADDED 119-120 P/S. A.O.'s P/S IN CANTILEVER BHD FOR ACCESS TO BARGES DELETED TO SUIT.						
13,14,15		9. STANS AT BHD 28 P/S & ℄, FRS 30 & 32 P/S ADDED.						
47		10. SCUTTLE OVER & LRS ADDED 128-129 P/S.						
13,15		11. RECESSES FOR TRANSPORTER MULES & DRAIN WELLS FRS 32-34 P/S DELETED. DRAIN WELLS ADDED FRS 28-29 P/S TO SUIT.						
15		12. OPENINGS P/S FOR BARGE TRANSPORTERS INDICATED IN BHD 34. BHD 34 INBD OF LONG BHD 37'-11" OFF ℄ MADE N.T. & DRAIN HOLES ADDED JUST INBD OF LONG BHD.						
13		13. HATCHWAY 28-29 (S) MOVED INBD & ENCLOSED BY A W.T. TRUNK. W.T. DR M-28-4 & STEPS ADDED TO SUIT.						
14		14. RES# 2 DELETED TO SUIT ITEMS 11 & 12						
7		15. RES# 7 DELETED.						
42		16. GATE, VL & RAILS AT 107-109 ℄ REARRANGED TO SUIT. INDICATION OF CONSOL ON WALKWAY OVER.						
18,19, 28,29		17. FIRE RETARDANT CLASSIFICATION ADDED FOR BHDS ENCLOSING STAIR TOWERS AT 40-42 P/S, 69-71 P & BHD 44 P. ENCL. BHD & DOOR AROUND H'WAY AT FR 70 ADDED.						
10		18. STANS AT FR 8 P/S DELETED						
11,12,13		19. WINCHES 26-27 P/S REVISED, BITTS 14-28 P/S RELOCATED.						
20		20. DRS M-45-1 & M-45-2 RELOCATED FROM 52" TO 56" FWD OF FR 46 TO SUIT STRUCT DEV.						
		21. BHD STIFFS INDICATED THRUOUGHT PLAN.						
29		22. "STAIRS" INDICATED AT 70 P/S.						
15		23. DRS M-34-1 & M-34-2 RELOCATED FROM 43'-10" TO 42'-10" OFF ℄ P/S.						
47		24. HINGING OF SCUTTLES M-128-1 & M-128-2 ADDED.						
45		25. ARCHES IN BHD 115 P/S RELOCATED FROM 5'-6" TO 5'-9" OUTBD OF CANTILEVER BHD.						
43,47		26. WEB FRS AT 110 & 24" FWD 128 P/S RELOCATED AT 7 11/16" FWD 110 & 17 3/16" FWD 128. MHS M-109-1 & M-109-2 MOVED FWD TO SUIT.						
14		27. SPARE DOLLY STOWAGE AREA INDICATED IN TRANSPORTER MAINT. SHOP FRS 28-34 P/S.						
		28. OWNERS DESIGNATION FOR LKRS AT FR 20 ℄, 42½ (S) 46½ P/S, 51 P/S, 89 P/S & 111 P/S REVISED.						
7	C	29. ABBREVIATION "A-O" ADDED.						
7,33		30. BHDS AROUND ENGRS PLATF HOIST TRUNK MODIFIED RES# 13 DELETED TO SUIT.						
7		31. RES# 8 DELETED.						
7,45,46 47,48		32. BITTS AT 128 P/S RELOCATED, CHOCK AT FR 130 P/S MODIFIED. SHELL STIFFS IN WAY OF OPENINGS AT 126 P/S DELETED & RES# 16 ADDED.						
42		33. STEPS INDICATED IN WAY OF DRS M-107-3, M-107-4.						
40		34. A.O. ADDED IN BHD 102 P/S						
42		35. MH OVER & V.L. AT FR 105½ P/S RELOCATED.						
35		36. BHD 48" AFT OF 88 (P) MODIFIED TO SUIT PIPING DEV.						
29 TO 33 INCL		37. ARGT OF SPACES 71 TO 82 MODIFIED TO SUIT MECH DEV. MH M-81-2 ADDED & RES# 3 DELETED TO SUIT.						
29,40		38. DRAINWELLS 70-71 & 101-102 P/S MODIFIED.						
28		39. INBD LONG PASSAGE BHD 68-70S KNUCKLED SO THAT BHD WILL LINE UP WITH ARCH REINFORCEMENT. DR M-68-1 MOVED FWD TO AVOID DOGS RESTRICTING PASSAGE THRU ARCH.						
26		40. DIM LOCATING LONG PASSAGE BHD ADDED AT 63½ (P).						
18,22,24		41. ARCHES & DRS IN BHDS AT FR 40, 52 & 58 P/S RELOCATED FROM 30" TO 35" P/S						
18		42. DIM AT 40½ (S) LOCATING LONG BHDS P/S CHGD FROM 42'-6½" TO 42'-8" TO SUIT STRUCT DEV.						
20,26		43. HANDRAILS KNUCKLED IN WAY OF ARCHES AT 46 P/S & 64 (S) TO AVOID RESTRICTING PASSAGE THUR ARCHES						
26		44. ARCH AT 64 (P) MODIFIED TO AVOID RESTRICTING PASSAGE.						
13		45. WIDTH OF HWAY TRUNK FWD OF BHD 28 (P) MODIFIED TO PROVIDE SPACE FOR BHD STIFFS, STEPS IN WAY OF DR ADDED. HWAY & DR LOCATION MODIFIED TO SUIT.						
12		46. HATCH M-24-1 MOVED INBD 1" TO SUIT STRUCT DEV.						
7,10		47. STAN AT 14 ℄ DELETED. RES# 9 DELETED TO SUIT.						
2		48. CONTRACT CHANGE NOS 8.1, 29, 31 & 39 ADDED.						
8		49. NOTE UNDER MN DK TITLE: FR NO CORRECTED FROM 127 TO 130						
11,12,7		50. SPACING OF FOOT & HAND HOLES IN CHAIN LKR ADDED RES# 15 DELETED TO SUIT.						
12,13		51. SIZE OF CHOCKS AT 24½ P/S & 27½ P/S INDICATED TO SCALE						
10,11,12,13		52. MOORING PORTS M-1-1 & M-1-2 DELETED. MOORING PORTS 14-28 RELOCATED SIZE REVISED & IDENTIFING NOS CORRECTED TO SUIT DEVELOPMENT OF MOORING.						

CONT ON PANEL 8

ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
		OFF ℄ TO 48" AFT BHD 88 & 47'-11" OFF ℄.						
6B,24A,29A		10. RESERVATION #7 ADDED.						
22,24,26		11. MANHOLES M-52-1, M-52-2, M-57-1, M-58-1, M-63-1 & M-64-1 RELOCATED FROM 41'-6" TO 44'-0" OFF ℄, & MANHOLE M-57-2 CHG'D FROM A 15"×23" FLWTMH TO A 23" DIA. RAWTMH WITH 4" COAM & RELOC FROM 40'-0" TO 44'-0" OFF ℄ PORT.						
ALL		12. PREFIX No "3" ON DOORS, MANHOLES, HATCHES, SCUTTLES & MOORING PORTS CHG'D TO "M".						
18A,18H		13. NTD# M-40-3 & M-40-4 CHG'D TO JOINER FIRE DR W/FIXED LIGHTS.						
13E,28A, 29A		14. 10" DIA. FIXED LIGHTS ADDED TO THE FOLLOWING DOORS; M-27-0, M-68-1 & M-69-1.						
9 THRU 13		15. HEIGHT ABV DK DIM ADDED TO MOORING PORTS.						
24H-28H		16. ALL MEDICAL CABINET DRS CHG'D TO RIGHT HAND SWING DOORS.						
18-29		17. HAND RAILS ADDED TO PASSAGEWAYS.						
37,39,41		18. GRAB RODS & LADDER RUNGS ADDED TO BHDS FOR MANHOLES #M-92-1, M-92-2, M-97-1, M-97-2, M-102-1 & M-102-2.						
VARIOUS		19. DESIGNATION "PASSAGE" ADDED TO COMPTS.						
28A		20. HATCHWAY AT FR 68 STBD, REVISED FROM 7'-2"×36" TO 7'-4"×36".						
1A,3B		21. MARITIME ADMINISTRATION DWG NoS. ADDED TO TITLE BLOCK & LIST OF REFERENCES.						
12D		22. NOTE ADDED TO RWT HATCH # M-24-1.						
43		23. ℄ OF HATCHWAY FR 107 P/S RELOCATED FROM 48'-9" TO 48'-6" OFF ℄.						
18B		24. DOOR # M-42-1, SWING CHG'D FROM RIGHT TO LEFT.						
14E		25. COMPT. TITLE "BARGE WINCH MACHY RM" CHG'D TO "TRANSPORTER MAINTENANCE SHOP.						
31A		26. "P/S" DELETED FROM DIM FOR 72"×60" OPNG FWD FR 78 STBD.						
37B		27. MANHOLE # M-92-1 CHG'D FROM "FTWTBPMH" TO "FLWTBPMH.						
46H		28. 30"×66" WT DR # M-121-2 DELETED.						
23A		29. INDICATION OF RES#2 CHG'D TO RES#1.						
24G		30. MANHOLE # M-58-2 CHG'D FROM 23" DIA TO A 15"×23" FLWTBPMH.						
15		31. SIZE OF WT DOORS # M-34-1 & M-34-2 CHGD FROM 30"×63" W/15½" SILL TO 30"×69" W/9½" SILL.						
7B,10		32. RES# 9 & 10 ADDED.						
	A	33. RES# 6 DELETED TO SUIT CANCELLATION GEN DYN CC#8 (ELIM OF HOOK IN STERN CANTILEVER)						
		ITEMS 1 THRU 11, TWX NEMEC TO GD. MARAD J.J. HENRY CO. INC OF JUNE 6, 1969. (G.D. - COST CHANGE #7, CONTR CHG MA 3). ITEMS 12 THRU 18, J.J. HENRY APPROVAL LTR OF MAY 5, 1969 FILE: 5589/S16-1/AHS-121-69. ITEMS 19 THRU 23, 32 & 33 DESIGN DEVELOPMENT. ITEM 24, J.J. HENRY APPROVAL LTR OF JUNE 25, 1969 FILE. 5589/S16/AHS-194-69. ITEM 25, J.J. HENRY APPROVAL LTR. OF JUNE 5, 1969 FILE: 5589/S16/AHS-172-69. ITEMS 26 THRU 31, DESIGN CORRECTION. REV "O" APPROVED BY U.S.C.G. LTR OF 5/26/69, BY U.S.P.H. LTR OF 6/3/69 & BY J.J. HENRY CO LTR OF 5/5/69 FILE 5589/S16/AHS-121-69 SUBJECT TO COMMENTS NOTED ABOVE.						
		1. PLAN REV "A" APPROVED BY J.J. HENRY LTR 5589/S16/AHS-293-69 OF 29 AUG 69 & LTR 5589/S16/AHS-279-69 OF 20 AUG 69.	KAL				1/5/70	
		2. PLAN REV "A" APPROVED BY USCG LTR 5940/GD 18-20 OF 26 AUG 69						
		3. PLAN REV "A" APPROVED BY USPH LTR OF 5 SEPT 69.						
9,13,22-24 33-35,43-48		4. MOORING & ANCHOR HANDLING REVISED.						
7D		5. GENERAL NOTE NO. 5 ADDED.						
29H		6. SERVICE SINK ADDED IN STEWARDS LOCKER FR 69-70P						
20A&H		7. TELEPHONE ATTENDANTS CABINET ADDED IN WATCH MAN'S STATION FR 47-48 P/S						
7B		8. RESERVATION NO. 11 ADDED.						
43-48 A,D&H		9. CANTILEVER FRAME SPACING AFT FR 109 CHANGED & WEB FRAMES MODIFIED.						
45 A&H		10. WRACKING BHD ADDED AT FR 119.						
43-48 A,C,D,E,F,G	B	11. ELEVATOR CONFIGURUATION MODIFIED.						
7B		12. RESERVATION NO. 12 ADDED.						
47-48 A&H		13. CANTILEVER CONFIGURUATION AFT FR 127 MODIFIED & DIMENSION - 38'-8" OFF ℄ ADDED.						
		14. MANHOLES & ACCESS OPENINGS RELOCATED AS FOLLOWS						
15 A&H		M-34-1 & M-34-2 FROM 18" AFT FR 34 P/S TO 30" AFT FR 34 P/S						
17 A&H		M-39-1 & M-39-2 FROM 18" FWD FR 40 P/S TO 30" FWD FR 40 P/S						
24 A&H		M-57-1 & M-57-2 FROM 21" FWD FR 58 P/S TO 26" FWD FR 58 P/S						
26A		M-63-1 FROM 20" FWD FR 64 (S) TO 26" FWD FR 64 (S)						
26H		M-63-2 FROM 16" FWD FR 64 (P) TO 26" FWD FR 64 (P)						
39 A&H		23" DIA AO FROM 41'-6" OFF ℄ AT 20" AFT FR 99 P/S TO 44'-0" OFF ℄ AT 38" AFT FR 99 P/S						
41 AH		23" DIA AO FROM 29" FWD FR 106 P/S TO 45" FWD FR 106 P/S						
7A		15. RESERVATION NO. 13, 14 & 15 ADDED.						
13E,C,19A 21A,24H 28H,42		16. FIRE STATIONS 11-18 ADDED						
13D		17. RAILS INDICATED AROUND HATCHWAY 32" AFT FR 28 (S)						

REFERENCES

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
8	C&A-OUTBOARD PROFILE	30211-03×9	241-S16-1-9
7	C&A-INBOARD PROFILE	30211-03×8	241-S16-1-8
6	C&A & GEN ARR-FOCSLE, POOP DK & ABOVE	30211-03×7	241-S16-1-7
5	C&A & GEN ARR-UPPER DECK	30211-03×6	241-S16-1-6
4	C&A & GEN ARR-CABIN DECK	30211-03×5	241-S16-1-5
3	C&A LOWER DECK & TWEEN DECK	30211-03×3	241-S16-1-3
2	C&A-TANKS BELOW LOWER DECK	30211-03×2	241-S16-1-2
1	C&A-INNERBOTTOM & TOP OF INNERBOTTOM	30211-03×1	241-S16-1-1

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
G	55	28	18,19,20
C	39		18,19 & 20
C	31		18,19 & 20
C	29		18,19 & 20
C	8.1		18,19 & 20
A	7	3	18,19 & 20

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
16-29		1. COMPARTMENTATION BETWEEN FR 35 & 71 P/S REVISED.	7/14/69					
7B,18A,18H		2. RESERVATION #5 RELEASED TO SUIT ITEM #1.						
16-42		3. SIZE OF WEB FRAMES INCREASED FR 35 TO 107.						
ALL		4. SIZE OF ℄ STAN. REVISED FR 34 THRU 109.						
31 & 40		5. STRUCTURAL BHDS ADDED FR 77 & 102 P/S.						
7B,31 & 40	A	6. RESERVATION #8 ADDED TO SUIT ITEM #5.						
18,33 & 35		7. INDICATION OF VERTICAL BHD STIFF DELETED, BHDS 40, 82 & 88.						
16,18,22, 24,35 & 42		8. INDICATION OF WT DOORS M-34-1, M-34-2, M-40-1, M-40-2, M-52-1, M-52-2, M-58-1, M-58-2, M-88-1, M-88-2, M-109-1 & M-109-2 REVISED TO SHOW FLAT BAR REINF.						
35 & 36		9. ROPE LKRS (DAE & DAF) FR 88 TO 90 REVISED, & WTD# M-88-1 & M-88-2 RELOCATED FROM 40'-5" TO 47'-11" OFF ℄. WTD# M-88-3 & M-88-4 CHGD TO NT & RELOCATED FROM BHD 88, 47'-11" (CONT. NEXT PANEL)						

REVISIONS TO	O	A	B	C	D	E	F	G	H	
			11/18/9	5/12/0	9/10/0	11/5/0	2/3/1	6/9/1	11/23/1	4/5/72
LYKES					1	1	1	1	1	1
M.A.(WASH)					1	1	1	1	1	1
M.A.(YARD)		1	1	1	1	1	1	1	1	1
J.J.HENRY(YARD)		1	1	1	1	1	1	1	1	1
J.J.HENRY(HOME)					1	1	1	2	2	2
ABS YD		1	1	1	1	1	1	1	1	1
USCG YD		1	1	1	1	1	1	1	1	1
USPHS					1	1	1	1		
LYKES N. ORLEANS					1	1				
871		13	13	13	14	13	8	12	6	
872		2	2	2	3	2	2	–	–	
873										
874		1	1	1	–					
875			1							
876		3	3	3		1	1	–	–	
TPS 866				1		1			1	1
899L		1	1	1						
[illegible]					2	2	1	1	1	
TOTAL NRO'S FS		24	25	25	31	[illegible]	[illegible]			
TOTAL NRO'S HS								22	18	17
TOTAL RO										

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	7-25-9	800		4
Not issued to Lykes			820		
30212	B	11-18-9	826	1	12
30212 reissue to Lykes	B	12-?-9	829		
			830		7
30212	C	5-12-0	841		3
30212	D	9-11-0	842		
"	E	11-5-0	843		
"	F	2-3-1	844		5
	G	6-10-1	899		
	H	11-23-1	LIBRARY		3
	J	4-5-2	[illegible]		1
			[illegible]		1
			835	1	1
			TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G						

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
J 11-9-73

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC
DESIGN B5-L-M3

Q div DWG NO. 30211-03×4

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN RS
DSGNR ERD RJ
SUPV RCL
ENGR

COMPT & ACCESS & GEN ARR
MAIN DECK

APPROVED DATE A.A. Jordan 4/1/9
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-1-4	J

SCALE 1/4" = 1'-0"
SHEET 1 OF 1

APPROVAL LTR DATED
ABS
USCG 5/26/69
USPHS 6/3/69

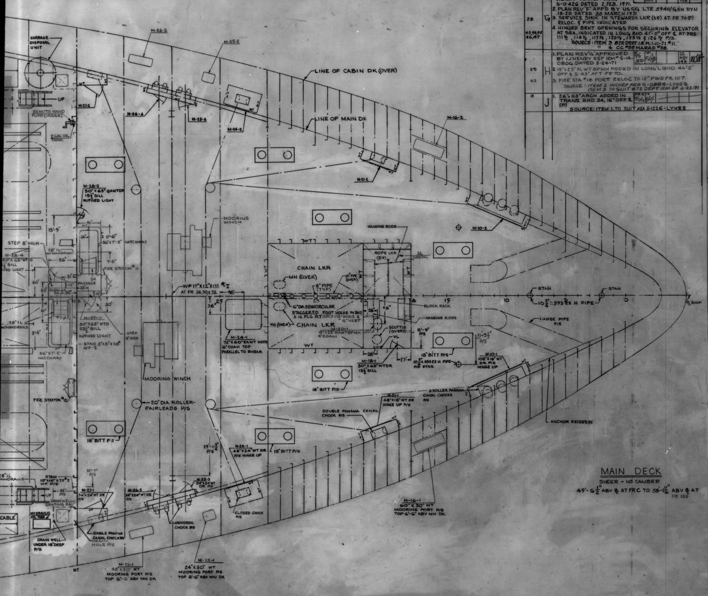
OWNER APPROVAL LTR DATED 5/5/9

KEY PLAN

AREA = SQ. FT.

W.A. DWG NO 241-S16-1-4
C DWG NO. 30211-03×4

GENERAL DYNAMICS, QUINCY
MA NO.241-516-1-4
GD NO. 30211-03x4
NOV, 1973
8X
FRAME 1 ② 3 4


13
12
11
10
LINE OF CABIN DK (OVER)
LINE OF MAIN DK
GARBAGE DISPOSAL UNIT
UP
REMOTE HAND PUMP (UNDER)
2 GAL OIL TANK
M-26-2
M-25-2
M-27-2
M-26-4
M-25-4
M-24-2
M-16-2
M-21-2
M-10-2
M-28-2
30"X63" QAWTDR
15½" SILL
W/FIXED LIGHT
MOORING WINCH
13'-9"
48"
24"
11'-6"
36"X7'-2" HATCHWAY
STEP 8" HIGH
28" IL W/HANDRAILS
M-28-4
30"X63" WTD
15½" SILL
W/FIXED LIGHT
56"
7'-5"
FIRE STATION #11
60"
31"
12"
DN
PASSAGE
23"
32"
30"
M-27-0
30"X63" WTD
23½" SILL
W/FIXED LIGHT
STEP 8" HIGH
STAN 8"X8"X58# WF-I
28" IL W/HANDRAILS
8'-4"
36"X7'-2" HATCHWAY
WF 12"X12"X133 #-I AT FR 26, 30 & 32
46"
36"
25
M-24-1
72"X60" RAWT HATCH
6" COAM TOP
PARALLEL TO SHEAR
MOORING WINCH
HANGING RODS
WT
CHAIN LKR
MH (OVER)
8" PIPE (TYP)
10" PIPE (OVER)
NT
23
6" DIA SEMICIRCULAR STAGGERED FOOT HOLDS IN BHD & IN FLG P.T. SPCD 17½" HORIZ & 12" VERT
MH (OVER)
CHAIN LKR
M-20-1
15"X23" RAWTBPMH
4" COAM
ROPE LKR (DX)
AL GRATING
28"
56"
BLOCK RACK
HANGING RODS
SCUTTLE (OVER)
VL
28"
27"
M-18-1
30"X63" WTDR
15½" SILL
8'-9" P/S
18" BITT P/S
10¾" X.593 EX H PIPE P/S STAN
11'-5½" P/S
M-10-1
108"X18" WT DR P/S HINGE UP
15
10
STAN
10¾" .593 EX H PIPE
STAN
HAWSE PIPE P/S
℄ SHIP
FIRE STATION #12
20" DIA ROLLER FAIRLEADS P/S
18" BITT P/S
18" BITT P/S
3 ROLLER PANAMA CANAL CHOCKS P/S
M-21-1
48"X18" WT DR HINGE UP P/S
DOUBLE PANAMA CANAL CHOCK P/S
ANCHOR RECESS P/S
29'-11¾" P/S
M-24-1
48"X24" WT DR P/S HINGE UP
18" BITT P/S
M-16-1
60"X30" WT
MOORING PORT P/S
TOP 6'-6" ABV MN DK
31'-7" P/S
28" IL HANDRAILS
STAN 10"X10"X72# I WF P/S
48" P/S
UP
DRAIN WELL GRATING P/S
CABLE
HYDRAULIC OIL TANK
DRAIN WELL UNDER 18" DEEP P/S
M-27-1
36"X24" WT DR P/S
SINGLE PANAMA CANAL CHOCK P/S
DRAIN HOLE P/S
M-26-3
24"X24" WT DR P/S
M-25-3
24"X24" WT DR P/S
UNIVERSAL CHOCK P/S
CLOSED CHOCK P/S
WT
M-26-1
48"X30" WT
MOORING PORT P/S
TOP 6'-6" ABV MN DK
M-25-1
24"X30" WT
MOORING PORT P/S
TOP 6'-6" ABV MN DK

MAIN DECK

SHEER – NO CAMBER
49'-6½" ABV ℄ AT FR C TO 58'-1 1/16" ABV ℄ AT FR 130

ZONE	LTR	REVISIONS	Q DIV DATE	Q DIV APPD	M.A DATE	M.A APPD	OWNER DATE	OWNER APPD
	G	1. PLAN REV "F" APP'D BY J.J. HENRY YD. REP. I.R.M # S-0426 DATED 2 FEB. 1971.	5/24/71 FF				7 JUN 1971	
		2. PLAN REV "F" APP'D BY USCG LTR 5940/GEN DYN 18-20 DATED 30 MARCH 1971						
28		3. SERVICE SINK IN STEWARDS LKR (SR) AT FR 70 (P) RELOC. & PIPE INDICATED						
43,44,45 46,47		4. HINGED BRKT OPENINGS FOR SECURING ELEVATOR AT SEA, INDICATED IN LONG BHD 41'-0" OFF ℄ AT FRS 111½, 114½, 117½, 120½, 123½ & 126½ P/S. SOURCE: ITEM 3 872 DEPT I.R.M. 1-11-71 # 11. " 4 CC #55 MARAD #28.						
	H	1. PLAN REV "G" APPROVED BY JJ HENRY REP IRM # S-14-0806 DATED 5-24-71	LED				22 NOV 1971	
29		2. 15"x23" FLWT BPMH ADDED IN LONG'L BHD 46'-2" OFF ℄ S 43" AFT FR 70.						
42		3. FIRE STA #18 PORT RELOC TO 12" FWD FR 107. SOURCE: ITEM 2 INCORP AEA S-0884-LYKES ITEM 3 TO SUIT 872 DEPT IRM OF 6-22-71						
15	J	1. 26"x63" ARCH ADDED IN TRANS BHD 34, 16" OFF ℄ (P) SOURCE: ITEM 1. TO SUIT AEA S-1226-LYKES	PR.K 1/5/72					

ZONE	LTR	DESCRIPTION	Q DIV DATE	Q DIV APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
7,42		53. OUTER RECESS FOR RAIL RAMP MODIFIED RES #4 DELETED TO SUIT.						
16 TO 42 INCL		54. OUTLINE OF WALKWAY OVER IN BARGE AREA MODIFIED TO SUIT STRUCT DEV.						
42		55. RAILS IN WAY OF GATES M-107-2 & M-107-3 MODIFIED.						
18		56. J. DRS IN LONG BHDS AFT OF BHD 40 P/S MOVED AFT TO CLEAR STRUCTURE.						
28,29		57. LONG FT BHD 69-71 (P) LOCATED AT 46'-5" OFF ℄ STIFFS ADDED & J. DRS MODIFIED TO SUIT.						
29	C	58. JOINER LINING ON BHD 71 (P) MOVED FWD TO CLEAR STRUCT. ~~FD DELETED FROM J DOOR WATCHMAN'S STA AFT FR 47 P/S.~~ SOURCE: ITEMS 4 & 5 TO SUIT J.J. HENRY APPROVAL LTR OF JAN. 5, 1970 FILE: 5589/516/AHS-4-70 ITEMS 6 & 7 CONFS OF 12/3/69 & 1/7/70 C.C. #8.1 ITEM 8 C.C. #29 ITEM 9 C.C. #31 ITEM 10 C.C. #39 ITEMS 11 TO 16 INCL CONFS OF 12/3/69, 2/5/ & 2/6/70 ITEM 17 JJH LTR OF NOV 4, 1969 FILE: 5589/516-1/AHS-386-69 ITEM 18 TO 58 INCL DES. DEV.						
	D	1. PLAN REV "C" APPROVED BY J.J. HENRY LTR OF JUNE 1, 1970, FILED 5589/516/AHS-257-70.	RS 9/11/70					
7,24,25		2. TRANS BHD 58P MKD "A-0" & LONG BHD FRS 58-69 FORMING THE INBD BOUNDRY OF STATEROOMS MKD B-0 & B ADDED TO ABBREVS.						
24,28		3. FIRE STA ENCLOSURE DOORS AT FRS 59P & 68P INDICATED AS JOINER DOORS.						
24 TO 28 INCL		4. ARGT OF CREW STATEROOMS FRS 58 TO 69P MODIFIED TO SUIT JOINER ARGT. & F.S. #15 & 16 RELOCATED.						
25,26,27,28 7		5. CONVECTORS INDICATED IN CREW T/S SPACES FRS 59 TO 69P & ADDED C.HTR TO ABBREVS.						
11,18,22, 35,43		6. ARGT OF EQUIP IN ROPE LKR DAB & DAC FR 51 P/S MODIFIED & EQUIP INDICATED IN ROPE LKR DX FR 19℄, LKR DY FR 42S, ROPE LKRS DAD & DAE AT FR 89 P/S & ROPE LKRS DAF & DAG FRS 110 P/S.						
14,15		7. ARGT OF EQUIP IN TRANSPORTER MAINTENANCE SHOP AT FR 30℄ ADDED.						
23,34,44, 45,46,47, 48,		8. BITTS AT FRS 56, 128 & 129 P/S RELOCATED, CHOCKS AT FRS 120, 121 128 & 130 P/S MODIFIED. LOC OF FAIRLEADS AT 116S, 120 P/S, 123 P/S & 127 P/S RELOCATED. SCUTTLES M-128-1 & 2 RELOCATED & RENUMBERED M-129-1 & 2.						
5		9. ITEM 46 OF REV "C" DELETED (SEE ITEM 21 REV "B").						
26		10. DIM LOCATING LONG PASSAGE BHD AF FR 68½ P CHGD FROM 53½" TO 52" TO SUIT JOINER ARGT.						
4		11. ITEM 41 REV "C" CLARIFIED.						
8,20		12. FD ADDED TO JOINER DOORS TO WATCHMANS STA AT FR 47 P/S. LATTER PORTION OF ITEM 58 AT REV "C" DELETED TO SUIT.						
33		13. ENGRS PAINT & KEROSENE RM ADDED FR 81 P & DOOR M-81-2 ADDED						
28		14. "CLOSER" ADDED FOR WT DR M-69-1						
48,7		15. VIEWING PORTS ADDED FR 130 P/S, RES 16 DELETED TO SUIT.						
39		16. MH OVER FWD OF FR 99 ℄ & VL MOVED OUTBD.						
42		17. FM TO FIRE STAS AT 107 P/S MOVED AFT. LOC OF STEPS IN WAY OF DOORS M-107-4 & 5 MOVED AFT TO CLEAR.						
31		18. INBD HANDRAIL AT FOOT OF INCL LADDER AT FR 77 P MODIFIED						
29		19. DIM LOC AFT END OF TRK AT FR 70½ S CHGD FROM 37½" TO 34¼".						
7		20. RES #1, 11, 14 RELEASED & GEN NOTE 6 ADDED.						
16		21. DESIGNATION FAN RM FR 34 TO 40 P/S CHGD TO PASSAGE						
15,16		22. VENTS ADDED FRS 34-35 P/S MHS M-34-1 & M-34-2 MOVED AFT TO CLEAR & RENUMBER M-35-1 & M-35-2						
26		23. DF BET FRS 62-63 (P) RELOCATED.						
10,11,12,13		24. WT CLOSURES ADDED INWAY OF CHOCKS FRS 10 TO 28 P/S DRS M-10-1 & 2, M-21-1 & 2, M-24-1 & 2, M-25-3 & 4, M-26-3 & 4 M-27 1 & 2 ADDED TO SUIT.						
5		25. REV C-52 M-27-1 & M-27-2 ADDED TO THIS REV (INADVERTANTLY OMITTED). SOURCE: ITEM 2 U.S.C.G. LTR OF JUNE 10, 1970 ITEM 3 TO 12 INCL J.J. HENRY LTR OF JUNE 1, 1970 FILE 5589/516/AHS-257-70 ITEM 13, 15 TO 25 INCL DES DEV ITEM 14 U.S.C.G. LTR 5940/GEN DYN 7/24/70						
	E	1. PLAN REV. "D" APP'D BY J.J. HENRY LTR, FILE: 5589/516/JUM-440-70 DATED SEPT. 29, 1970.	YDG 10/13/70					
		2. PLAN REV. "D" APP'D BY U.S.C.G. LTR 5940/GENERAL DYNAMICS DATED 16 OCTOBER 1970.						
24,27		3. LKRS IN CREW S.R. FRS 58-66 (P) REVISED.						
36,43		4. INDICATION OF GRATINGS ADDED IN ROPE LKRS DAE, DAD, DAG & DAF.						
8		5. ITEM #19 OF REV. "D" FR 79½ (S) CORRECTED TO FR 70½ (S).						
13,15		6. VISE ADDED ON WORKBENCH IN TRANSPORTER MAINTENANCE SHOP & (2) GALLON OIL TANK & REMOTE HAND PUMP ADDED ON BHD 28 (P).						
15		7. GRINDER RELOC FROM BET FRS. 31-32 (P) AT SHELL TO FWD SIDE OF BHD 34 (S). SOURCE: ITEM 3-7 INCL TO SUIT J.J. HENRY LTR., FILE: 5589/516/JUM-440-70 DATED SEPT. 29, 1970.						
	F	1. PLAN REV "E" APP'D BY JJH LTR OF DEC 16, 1970, FILE: 5589/516/JUM-565-70	TC 2/4/71				9 FEB 1971	
		2. PLAN REV "E" APP'D BY USCG LTR 5940 GEN DYN OF DEC. 2, 1970						
20		3. PEDESTAL OF DESK IN WATCHMANS STA FR 48 S CHGD FROM LH TO RH						
33		4. PLATF HOIST & BRAKE ASSY ADDED FWD OF FR 82 S.						
6,33		5. VENT TERMINALS IN ENGRS PAINT & KEROSENE RM FR 82 P ADDED. EQUIPMENT IN RM REARRANGED TO SUIT. "VT" ADDED TO ABBREVATION LIST.						
19		6. SHEATHING IN CREWS LAUNDRY DELETED						
19		7. ARRGT OF CREWS LAUNDRY REVISED						
28,29		8. WOOD GRATINGS IN LINEN LKR & STEWARDS STRS FRS 69-71 P ADDED						
7,21,36 43		9. GRATINGS IN ROPE LKRS AT FRS 51 P/S, 89 P/S & 110 P/S MKD "AL". "AL" ADDED TO ABBREVATION LIST						
		10. "AO" BHD CLASS. ADDED FOR BHDS OF ENGR'S PAINT & KEROSENE RM., 81-82 P., ACCESS TRUNK FR 63-34¼ FWD FR 71 (S). W.T. LONG. BHD 37'-11" OFF ℄ BET FR 58-71 P ONLY. SOURCE: ITEM 3 JJ HENRY LTR, DEC 16, 1970, FILE: 5589/516/JUM-565-70. ITEM 4. DEPT 872 DEPT IRM 514-0366 OF 11/5/70. " 5. VENT DIAGRAM CHG 873-08-389. " 6. CONF OF OCT 7, 1970. " 7. LAUNDRY ARR PL 30316130. " 8. PL 30573-82x2, MA #241-514-01-03. " 9. " " -82x1 " " " " -01. " 10 TO SUIT QD/Q SK 30H-21-2 REV "B" & USCG REQ. ITEMS 4 & 5 RELEASES ANDC S-0476.						
		11. MONORAIL INDICATED OVER IN TRANSPORTER MAINT SHOP FR 28 TO 34 P/S.						
		12. HYD OIL TANK 42'-6" OFF ℄ & 6" FWD FR 33 (S) RELOCATED TO 37'-6" OFF ℄ & 6" FWD FR 29 (S). SOURCE: IRM #514-0426						

ABBREVIATIONS

A	FIRE RETARDENT BHD, STEEL.		
AP	AFT PERPENDICULAR	MH	MANH
ABL	ABOVE BASE LINE	MN	MAIN
ABT	ABOUT	MJ	METAL
ABV	ABOVE	NT	NON
AO	ACCESS OPENING		
AL	ALUMINUM	OPNG	OPEN
BR	BOOK RACK		
BEL	BELOW	P	PORT
BHD	BULKHEAD	PLATF	PLATF
℄	BASE LINE		
BPMH	BOLTED PLATE MANHOLE	RA&AWT	RA
B	FIRE RETARDENT BHD, INCOMBUSTIBLE	S	STARB
CL	CLEAR	STA	STAT
℄	CENTER LINE	S.W.	SALT
C.HTR	CONVECTOR HEATER	SH	SHOW
DIA	DIAMETER	SS	SERV
DK	DECK	T/S	TOILET
DR	DOOR	TYP	TYPIC
ENGRS	ENGINEERS	V.L.	VERT
		VT	VENT
FT	FUME TIGHT	W.T.	WATE
FP	FORWARD PERPENDICULAR		
FR	FRAME		
FWD	FORWARD		
HWAY	HATCHWAY		
ID	INSIDE DIAMETER		
KNU	KNUCKLE		
LKR	LOCKER		

GENERAL NOTES

1. ~~EXACT LOCATION FOR CUTTING ALL ACCESS OPENINGS SHALL BE~~ ~~STRUCTURAL PLANS.~~
2. SIZE OF ALL HATCHES, MANHOLES, DOORS, ECT. REPRESENT CLEAR OPE
3. CLEAR HEADROOM [illegible] ACCOMMODATIONS, WORKING, NAVIGATION SPAC TO[illegible] SHOWER SPACES SHALL NOT BE LESS THAN 7'-6" C UNDER LOCAL POINTS SUCH AS DUCTS, PIPING, LIGHTS, GIRDERS, E LESS THAN 7'-[illegible] IN THE ABOVE SPACES.
4. SILL AND COAMING HEIGHTS ARE FROM TOP OF STEEL DECK TO
5. JOINER BULKHEADS IN HABITABLE AREAS SHALL BE LOCATED PROVIDE EQUAL AREA FOR ALL CREW.
6. WHERE BHDS AND/OR LININGS ARE INDICATED AS JOINER, THE SHALL HAVE A JOINER CEILING.

RESERVATIONS

1. ~~ALL MOORING WINCHES P/S FWD FR 28 PENDING DESIGN DEVELOPMENT~~
2. ~~BARGE WINCHES & WT RECESSES FOR DOLLY P/S – PENDING DEVELOPMENT OF BARGE HANDLING EQUIPMENT.~~
3. ~~SIZE & LOCATION OF CUTS FOR UPTAKES, VENT, ACCESS, ET PENDING DESIGN DEVELOPMENT OF MACHY SPACE ARR.~~
4. ~~AREA IN WAY OF STERN GATES INCLUDING RECESS FOR SHEA AND OTHER BARGE HANDLING EQUIPMENT PENDING DEVELOPME OF BARGE HANDLING.~~
5. ~~LOCATION OF BULKHEAD INDICATED AT ABOUT 33" FWD FR RESOLUTION OF CONFLICT BETWEEN CONTRACT PLAN 53 MN DK & BELOW, & CONTRACT PLAN 5382-511-3 DECK~~
6. ~~STERN CONFIGURATION, AFT FR 125 P/S – PENDING DEVEL GUIDANCE SYSTEM & BARGE FENDERING.~~
7. ~~PASSAGE FRS 58 TO 71 STBD, PENDING DEVELOPMENT FOR POSSIB TRANSPORTER MOTOR GENERATOR ROOM.~~
8. ~~ARCHWAY IN BHD 77 P/S, PENDING STRUCTURAL DEVELOPMENT O~~
9. ~~LOCATION OF STANS FR 8 & 14 PENDING STRUCTURAL DEVELOPME~~
10. ~~INDICATION OF ELEVATOR GUIDANCE SYS & BARGE FENDERIN~~
11. ~~INDICATION OF WATERTIGHT CLOSURES FOR ALL MOORING FI FWD FR 28 – PENDING DESIGN DEVELOPMENT.~~
12. ~~CANTILEVER & ELEVATOR CONFIGURATION AFT FR 109 – PENDI~~
13. ~~ENGINEERS PLATFORM HOIST PENDING DESIGN DEVELOPMENT.~~
14. ~~INDICATION OF BITTER END FITTING PENDING RIGGING DEVELOPME~~
15. ~~SPACING FOR FOOTHOLES IN DIVISIONAL BHD OF CHAIN LKR PENDIN~~
16. ~~VIEWING PORTS P/S AFT END OF CANTILEVER FR 130 PENDING MO~~

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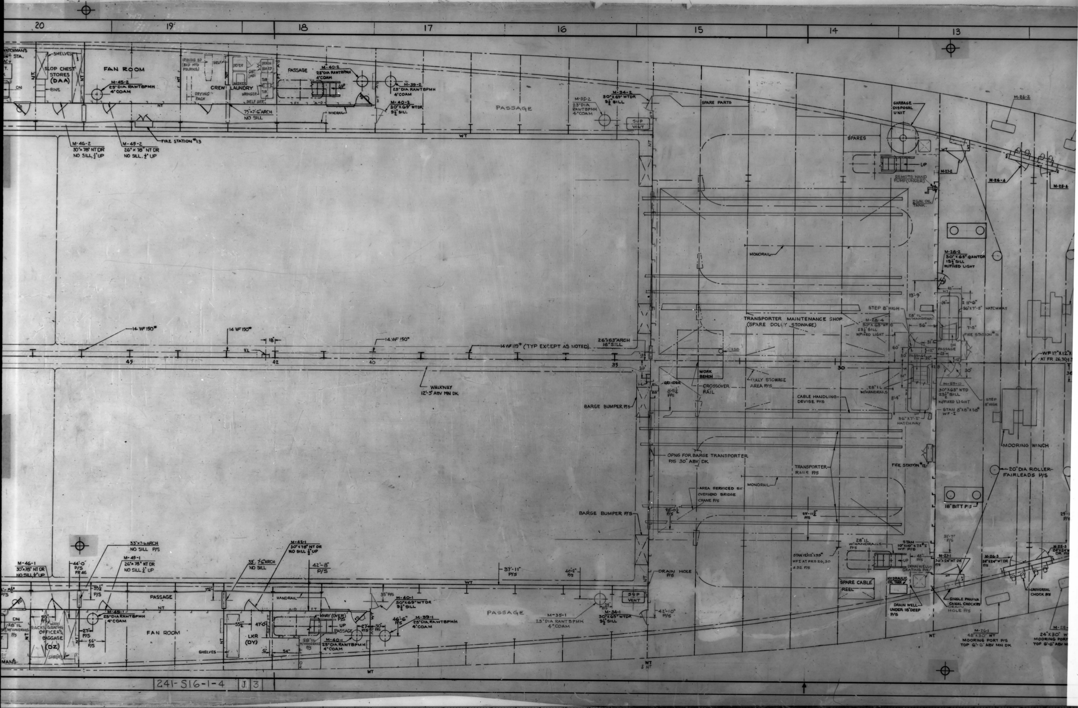
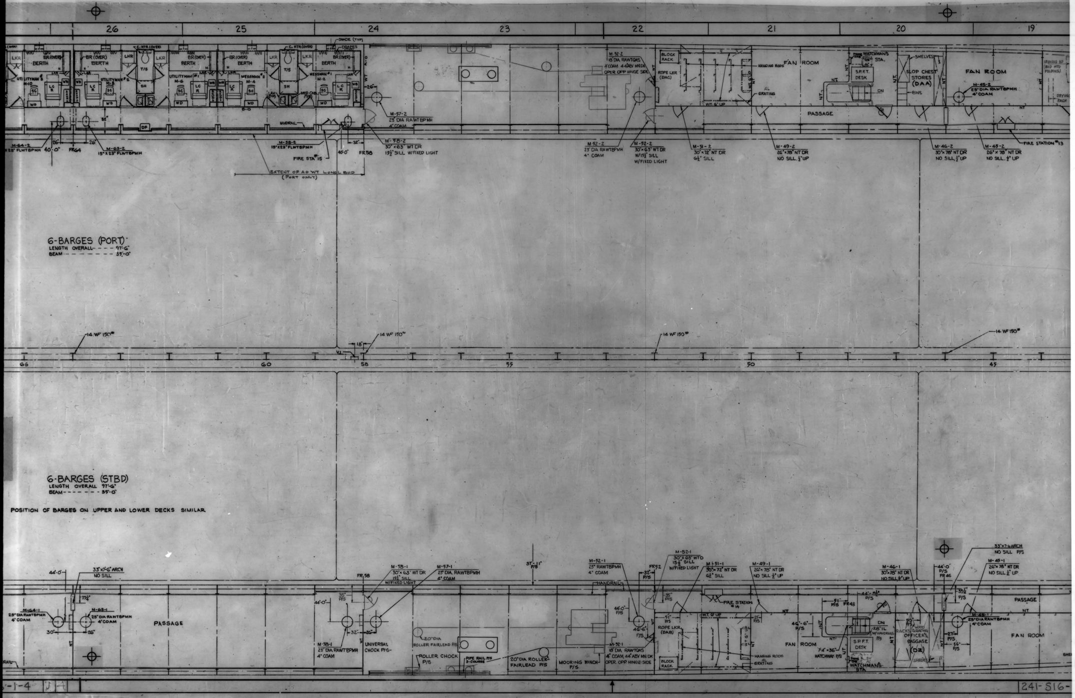
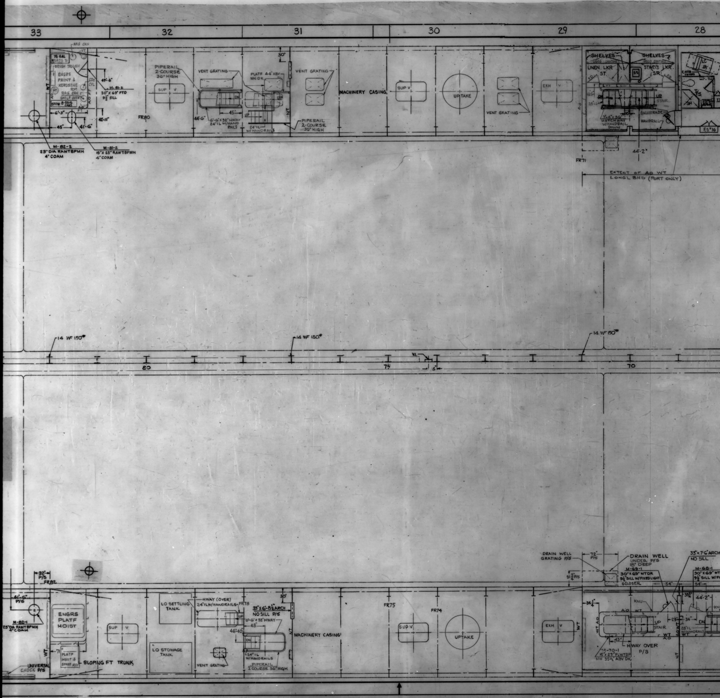
MA NO.241-516-1-4 GD NO. 30211-03x4 FRAME 1 2 ③ 4


20
19
18
17
16
15
14
13
SLOP CHEST STORES (DAA)
FAN ROOM
CREW LAUNDRY
PASSAGE
M-45-2 23" DIA RAWTBPMH 4" COAM
M-40-2 23" DIA RAWTBPMH 4" COAM
M-39-2 23" DIA RAWTBPMH 4" COAM
M-40-2 30" X 69" WTDR 9½" SILL
M-35-2 23" DIA RAWTBPMH 4" COAM
M-34-2 30" X 69" WTDR 9½" SILL
75" X 7'-6" ARCH NO SILL
HANDRAIL
M-46-2 30" X 78" NT DR NO SILL, ½" UP
M-45-2 26" X 78" NT DR NO SILL, ½" UP
FIRE STATION #13
SPARE PARTS
SPARES
GARBAGE DISPOSAL UNIT
REMOTE HAND PUMP (UNDER)
2 GAL OIL TANK
M-26-2
M-27-2
M-26-4
M-26-2 30" X 63" QAWTDR 15½" SILL W/FIXED LIGHT
36" X 7'-2" HATCHWAY
FIRE STATION #11
14 WF 150#
14 WF 119# (TYP EXCEPT AS NOTED)
26" X 63" ARCH 16" SILL
45
42
40
35
30
WALKWAY 12'-5" ABV MN DK
BARGE BUMPER P/S
WORK BENCH
GRINDER
CROSSOVER RAIL
DOLLY STOWAGE AREA P/S
MONORAIL
TRANSPORTER MAINTENANCE SHOP (SPARE DOLLY STOWAGE)
STEP 8" HIGH
28" IL W/HANDRAILS
CABLE HANDLING DEVISE P/S
36" X 7'-2" HATCHWAY
M-27-2 30" X 63" WTD 23½" SILL W/FIXED LIGHT
STAN 8" X 8" X 58# WF I
WF 12" X 12" AT FR 26,30
OPNG FOR BARGE TRANSPORTER P/S 30" ABV DK
TRANSPORTER RAILS P/S
AREA SERVICED BY OVERHEAD BRIDGE CRANE P/S
FIRE STATION #12
MOORING WINCH
20" DIA ROLLER FAIRLEADS P/S
18" BITT P/S
STAN 12" X 12" X 99# WF I AT FRS 26, 30 & 32 P/S
STAN 10" X 10" X 72# I WF P/S
DRAIN WELL GRATING P/S
SPARE CABLE REEL
HYDRAULIC OIL TANK
DRAIN WELL UNDER 18" DEEP P/S
SINGLE PANAMA CANAL CHOCKS
DRAIN HOLE P/S
UNIVERSAL CHOCK P/S
M-26-1 48" X 30" WT MOORING PORT P/S TOP 6'-6" ABV MN DK
24" X 30" WT MOORING PORT TOP 6'-6" ABV MN DK
M-27-1 36" X 24" NT DR
M-26-3 24" X 24" WT DR
33" X 7'-6" ARCH NO SILL P/S
M-46-1 30" X 78" NT DR NO SILL ½" UP
M-45-1 26" X 78" NT DR NO SILL ½" UP
M-42-1 30" X 78" NT DR NO SILL ½" UP
35" X 7'-6" ARCH NO SILL
44'-0" P/S FR 46
42'-8" P/S
37'-11" P/S
46'-2" P/S
M-45-1 23" DIA RAWTBPMH 4" COAM
FAN ROOM
PASSAGE
RACKS GRATING OFFICERS BAGGAGE (DZ)
SHELVES
LKR (DY)
HWAY (OVER) P/S
M-40-1 30" X 69" WTDR 9½" SILL
M-39-1 23" DIA RAWTBPMH 4" COAM
M-40-1 23" DIA RAWTBPMH 4" COAM
M-35-1 23" DIA RAWTBPMH 4" COAM
M-34-1 30" X 69" WTDR 9½" SILL
SUP VENT
DRAIN HOLE P/S
WT
NT
241-516-1-4 J3

GENERAL DYNAMICS, QUINCY NOV. 1973 8X
MA NO. 241-516-1-4 GD NO. 30211-03×4 FRAME 1 2 3 ④
5 6 7 8


26
25
24
23
22
21
20
19
LKR
BR (OVER)
BERTH
UTILITYMAN #3
M-10
UTILITYMAN #2
M-8
C. HTR (OVER)
T/S
SH
UTILITYMAN #1
M-6
MESSMAN #2
M-4
MESSMAN #1
M-2
SHADE (TYP)
DRAPES (TYP)
LC R
SC
WB
WD
ACCUM
LAV. (TYP)
MED CAB (TYP)
B-O
WT A-O
DF
HANDRAIL
52"
M-64-2
15"x23" FLWTBPMH
40'-0"
26"
FR64
M-63-2
15"x23" FLWTBPMH
M-58-2
15"x23" FLWTBPMH
FIRE STA #15
32"
FR58
M-57-2
23" DIA RAWTBPMH
4" COAM
M-58-2
30"x63" WT DR
15½" SILL W/FIXED LIGHT
EXTENT OF A-O WT LONGL BHD
(PORT ONLY)
M-52-2
18" DIA RAWTQAS
4" COAM 44" ABV MN DK
OPER OPP HINGE SIDE
BLOCK RACK
ROPE LKR (DAC)
HANGING RODS
FAN ROOM
AL GRATING
WT 6" UP
NT
PHONE CAB
WATCHMAN'S STA.
SW AC
S.P.F.T. DESK
DN
SHELVES
SLOP CHEST STORES (DAA)
BINS
FAN ROOM
M-45-2
23" DIA RAWTBPMH
4" COAM
IRONING BD (BHD MTD FOLDING)
DRYING RACK
PASSAGE
M-52-2
23" DIA RAWTBPMH
4" COAM
M-52-2
30"x63" WT DR
W/15½" SILL
W/FIXED LIGHT
M-51-2
30"x72" NT DR
6½" SILL
M-49-2
26"x78" NT DR
NO SILL, ½" UP
M-46-2
30"x78" NT DR
NO SILL, ½" UP
M-45-2
26"x78" NT DR
NO SILL, ½" UP
FIRE STATION #13
6-BARGES (PORT)
LENGTH OVERALL - - - - 97'-6"
BEAM - - - - - - - - - 35'-0"
14 WF 150#
14 WF 150#
14 WF 150#
14 WF 150#
18"
65
60
58
55
50
45
6-BARGES (STBD)
LENGTH OVERALL 97'-6"
BEAM - - - - - - - 35'-0"
POSITION OF BARGES ON UPPER AND LOWER DECKS SIMILAR
44'-0"
33"x7'-6" ARCH
NO SILL
33¼"
M-64-1
23" DIA RAWTBPMH
4" COAM
M-63-1
23" DIA RAWTBPMH
4" COAM
30"
26"
NT
PASSAGE
RAIL
FR 58
M-58-1
30"x63" WT DR
15½" SILL
W/FIXED LIGHT
M-57-1
23" DIA. RAWTBPMH
4" COAM
35" P/S
44'-0"
32"
26"
M-58-1
23" DIA RAWTBPMH
4" COAM
UNIVERSAL CHOCK P/S
20" DIA ROLLER FAIRLEAD P/S
ROLLER CHOCK P/S
PIPE RAIL P/S 3-COURSE
20" DIA ROLLER FAIRLEAD P/S
37'-11" P/S
MOORING WINCH P/S
M-52-1
23" RAWTBPMH
4" COAM
HANDRAIL
32" P/S
FR52
M-52-1
30"x63" WTD
15½" SILL
W/FIXED LIGHT
M-51-1
30"x72" NT DR
6½" SILL
35" P/S
44'-0" P/S
46'-6" P/S
M-52-1
18" DIA RAWTQAS
4" COAM 44" ABV MN DK
OPER. OPP HINGE SIDE
51" P/S
ROPE LKR (DAB)
BLOCK RACK
W.T. 6" UP
FIRE STATION #14
21" P/S
HANGING RODS
AL GRATING
M-49-1
26"x78" NT DR
NO SILL ½" UP
46'-6" P/S
FAN ROOM
51" P/S
FR48
44'-8½" P/S
DN
28" IL W/HANDRAILS P/S
7'-4"x36" HATCHWAY P/S
S.P.F.T. DESK
PHONE CAB
SW AC
WATCHMAN'S STA
M-46-1
30"x78" NT DR
NO SILL ½" UP
50" P/S
RACKS
WOOD GRATING
OFFICER'S BAGGAGE (D2)
SHELVES
44'-0" P/S
FR 46
33"x7'-6 ARCH
NO SILL P/S
35½" P/S
27" P/S
56" P/S
M-45-1
26"x78" NT DR
NO SILL ½" UP
M-45-1
23" DIA RAWTBPMH
4" COAM
PASSAGE
FAN ROOM
-1-4
J 4
241-S16-


33
32
31
30
29
28
27
26
ENGRS PAINT & KEROSENE
BRUSH TROUGH
PIPERAIL 2-COURSE 36" HIGH
VENT GRATING
MACHINERY CASING
SUP V
UPTAKE
EXH V
SHELVES
UNEN. LKR ST.
STWD'S LKR. SR.
BALUSTRADE
HANDRAIL
BERTH
CHIEF COOK M-14
2ND COOK M-12
UTILITYMAN #3 M-10
UTILITYMAN #2 M-8
UTILITYMAN #1 M-6
LKR
T/S
SH
PASSAGE
FR80
FR71
FR64
M-82-2 23" DIA RAWTBPMH 4" COAM
M-81-2 15" x 23" RAWTBPMH 4" COAM
M-64-2 15" x 23" FLWTBPMH
M-63-2 15" x 23" FLWTBPMH
EXTENT OF AO WT LONGL BHD (PORT ONLY)
6-BARGES (PORT)
LENGTH OVERALL - - - - 97'-6"
BEAM - - - - - - - - 35'-0"
14 WF 150#
80
75
70
65
6-BARGES (STBD)
LENGTH OVERALL 97'-6"
BEAM - - - - - - - 35'-0"
POSITION OF BARGES ON UPPER AND LOWER DECKS SIMILAR
DRAIN WELL GRATING P/S
DRAIN WELL UNDER P/S 18" DEEP
M-69-1 30" x 69" WTDR 9½" SILL W/FIXED LIGHT & CLOSER
33" x 7'-6" ARCH NO SILL
M-68-1 30" x 69" WTDR 9½" SILL W/FIXED LIGHT
ENGRS PLATF HOIST
PLATF HOIST & SPARE PARTS
SLOPING FT TRUNK
UNIVERSAL CHOCK P/S
M-82-1 23" DIA RAWTBPMH 4" COAM
LO SETTLING TANK
LO STOWAGE TANK
HWAY (OVER) 24" IL W/HANDRAILS
33" x 6'-8" ARCH NO SILL P/S
6'-6" x 32" HWAY
24" IL W/HANDRAILS
PIPERAIL 2 COURSE 36" HIGH
FR75
FR74
FR82
FR68
HWAY OVER P/S
M-70-1 15" x 23" FLWTBP MIN 33" ABV DK
7'-4" x 36" HATCHWAY
UP STAIR
HANDRAIL
M-64-1 23" DIA RAWTBPMH 4" COAM
M-63-1 25" DIA RAWTBPMH 4" COAM
33" x 7'-6" ARCH NO SILL
241-516-1-4

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MA NO. 241-516-1-4 GD NO. 30211-03x4 FRAME 1 2 3 4 ⑤ 6 7 8

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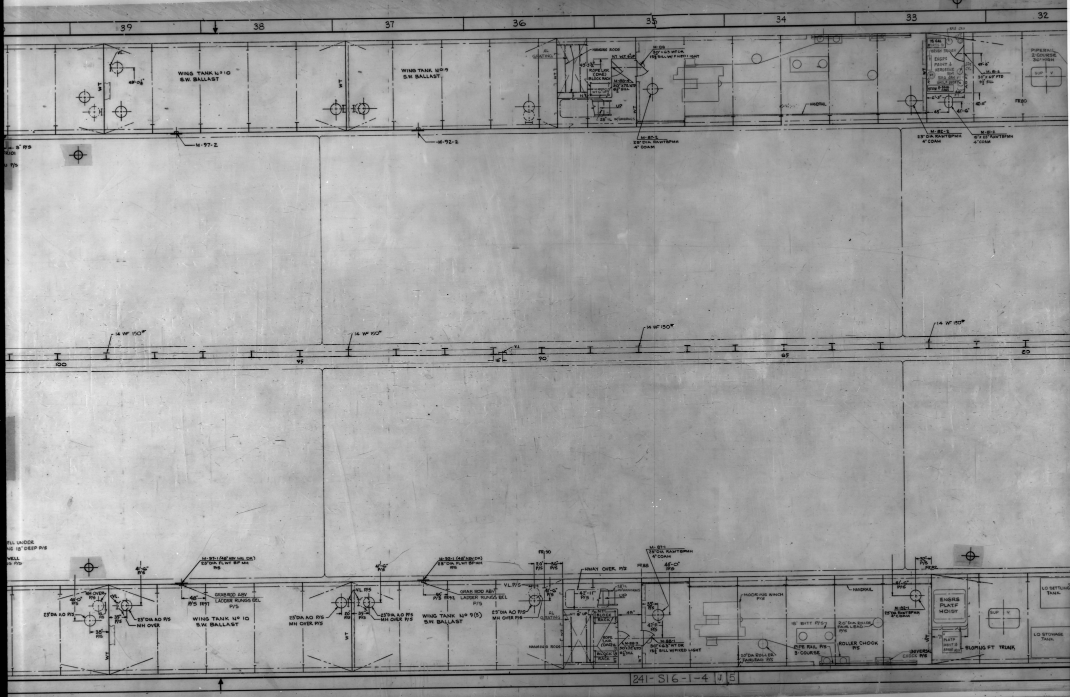
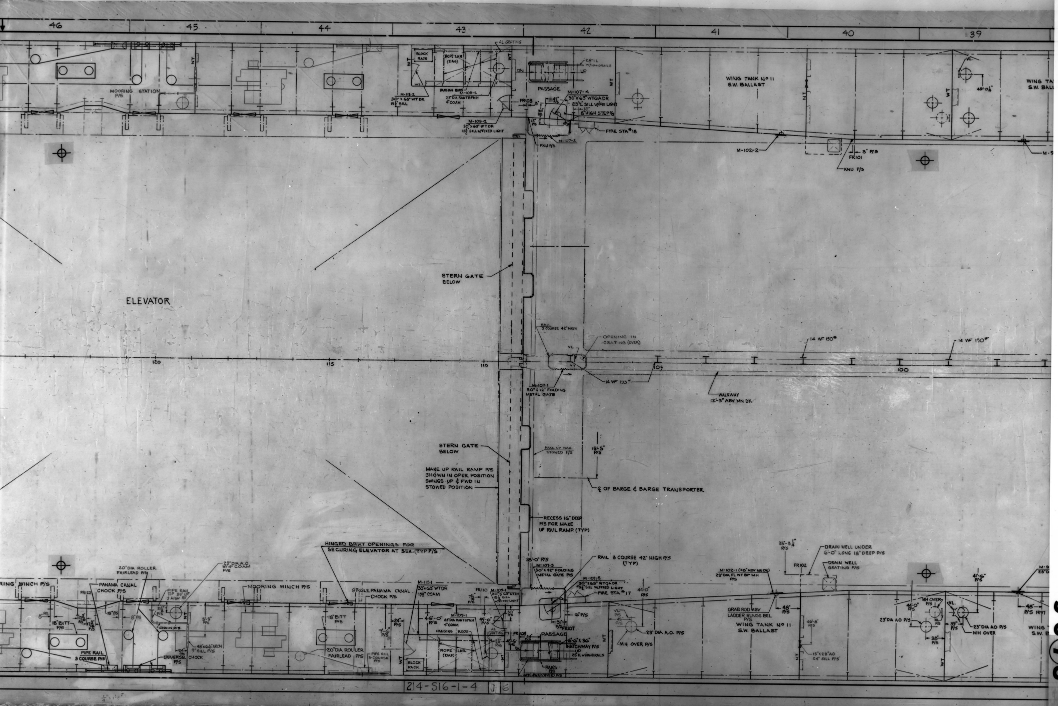
MA NO.241-S16-1-4 GD NO. 30211-03x4 FRAME 1 2 3 4 5 6 7 8

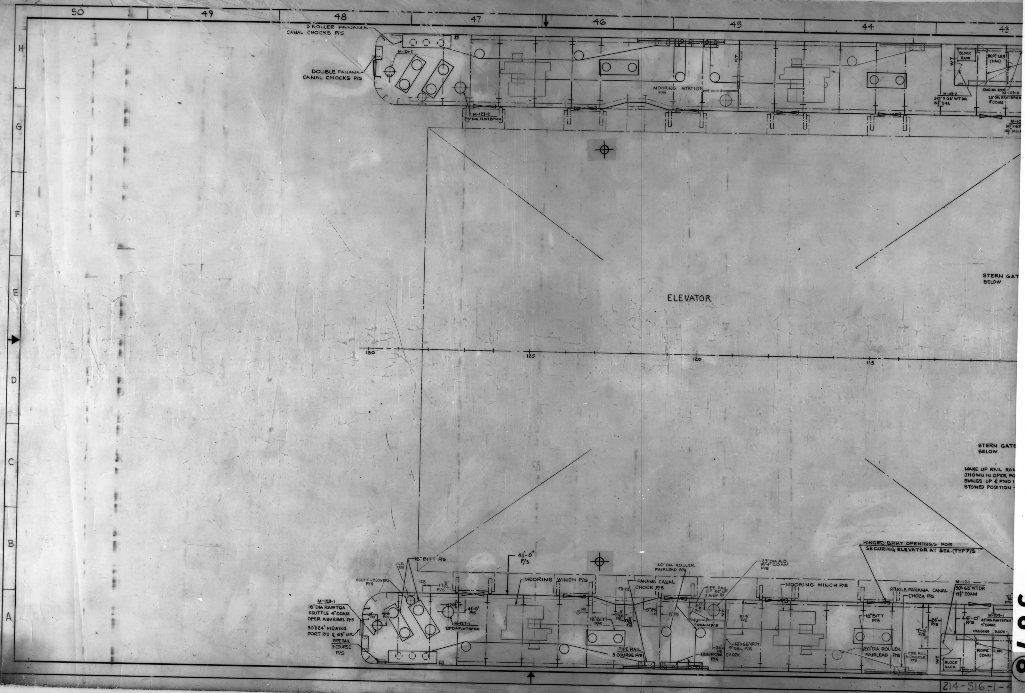

39
38
37
36
35
34
33
32
WING TANK No 10
S.W. BALLAST
WING TANK No 9
S.W. BALLAST
49'-0¼"
V.L.
W.T.
HANGING RODS
AL GRATING
ROPE LKR. (DAE)
BLOCK RACK
M-88-4
30"X72 NTD
6½" SILL
M-89
30"x63 WTDR
15½" SILL W/ FIXED LIGHT
UP
28" IL W/HANDRAILS
HANDRAIL
M-87-2
23" DIA RAWTBPMH
4" COAM
75 GAL
ENGRS PAINT & KEROSENE RM
RAG CAN
45°
41'-6"
42'-11"
M-81-2
30"x 69" PTD
3½" SILL
M-82-2
23" DIA RAWTBPMH
4" COAM
M-81-2
15"x 23" RAWTBPMH
4" COAM
PIPERAIL 2 COURSE 36" HIGH
SUP V
FR80
8" P/S
FR101
M-97-2
M-92-2
14 WF 150#
100
95
90
85
80
V.L
18"
M-97-1 (48" ABV MN DK)
23" DIA FLWT BP MH
P/S
M-92-1 (48" ABV DK)
23" DIA FLWT BP MH
P/S
GRAB ROD ABV
LADDER RUNGS BEL
P/S
48"
P/S FR97
FR92
MH OVER P/S
44'-0" P/S
23" DIA AO P/S
23" DIA AO P/S
MH OVER
35" P/S
36" P/S
41'-6" P/S
WING TANK No 10
S.W. BALLAST
23" DIA AO P/S
MH OVER P/S
23" DIA AO P/S
MH OVER P/S
WING TANK No 9 (S)
S.W. BALLAST
FR 90
20" P/S
36" P/S
HWAY OVER P/S
V.L. P/S
42'-11" P/S
23" DIA AO P/S
MH OVER P/S
FR88
M-87-1
23" DIA RAWTBPMH
4" COAM
44'-0" P/S
47'-11" P/S
M-88-3
30"x72" NTD
6½" SILL
M-88-1
30"x63" WT DR
15½" SILL W/FIXED LIGHT
MOORING WINCH P/S
18" BITT P/S
20" DIA ROLLER FAIRLEAD P/S
PIPE RAIL P/S
3-COURSE
20" DIA ROLLER FAIRLEAD P/S
ROLLER CHOCK P/S
UNIVERSAL CHOCK P/S
M-82-1
23" DIA RAWTBPMH
4" COAM
30" P/S
FR82
ENGRS PLATF HOIST
SUP V
SLOPING FT TRUNK
LO SETTLING TANK
LO STOWAGE TANK
WELL UNDER
18" DEEP P/S
241-S16-1-4 J 5

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-516-1-4 GD NO. 30211-03x4 FRAME 1 2 3 4 5 6 ⑦ 8



46
45
44
43
42
41
40
39
MOORING STATION P/S
BLOCK RACK
ROPE LKR (DAS)
AL GRATING
HANGING RODS
M-112-2 30"x 63" WT DR 18½" SILL
M-109-2 23"DIA RAN'T BPMH 4" COAM
M-109-2 30"x 63" WT DR 18½" SILL W/FIXED LIGHT
PASSAGE
M-107-4 30"x 63" WTQA DR 23½" SILL W/FIX LIGHT 8" HIGH STEP P/S
FIRE STA #18
M-107-2
KNU P/S
28"IL W/HANDRAILS
UP
DN
WING TANK No 11 S.W. BALLAST
M-102-2
FR101
3" P/S
KNU P/S
WING TANK S.W. BALLAST
ELEVATOR
STERN GATE BELOW
RAIL 3 COURSE 42" HIGH
OPENING IN GRATING (OVER)
VL
14 WF 150#
14 WF 155#
M-107-1 30" x 42" FOLDING METAL GATE
120
115
110
105
100
WALKWAY 12'-3" ABV MN DK
MAKE UP RAIL STOWED P/S
19'-5" P/S
MAKE UP RAIL RAMP P/S SHOWN IN OPER POSITION SWINGS UP & FWD IN STOWED POSITION
℄ OF BARGE & BARGE TRANSPORTER
RECESS 16" DEEP P/S FOR MAKE UP RAIL RAMP (TYP)
HINGED BRKT OPENINGS FOR SECURING ELEVATOR AT SEA. (TYP P/S
RAIL 3 COURSE 42" HIGH P/S (TYP)
36'-0" P/S
M-107-3 30"x 42" FOLDING METAL GATE P/S
M-107-5
FIRE STA #17
44'-0" P/S
M-102-1 (48" ABV MN DK) 23"DIA FL WT BP MH P/S
FR102
DRAIN WELL UNDER 6'-0" LONG 18" DEEP P/S
DRAIN WELL GRATING P/S
35'-3¼" P/S
41'-6" P/S
MOORING WINCH P/S
PANAMA CANAL CHOCK P/S
20"DIA ROLLER FAIRLEAD P/S
23"DIA A.O. W/4" COAM P/S
PIPE RAIL TOP 36" UP 2 HIGH P/S
SINGLE PANAMA CANAL CHOCK P/S
M-112-1 30"x 63" WTDR 17½" COAM
FR110
M-109-1 23"DIA RAN'T BPMH 4" COAM
18" BITT P/S
CHAIN P/S
48"x 66" ARCH 9" SILL P/S
UNIVERSAL CHOCK
PIPE RAIL 3 COURSE P/S
20"DIA ROLLER FAIRLEAD P/S
PIPE RAIL 3 COURSE P/S
46'-0" P/S
24" P/S
ROPE LKR (DAF)
BLOCK RACK
PASSAGE
6'-6"x 36" HATCHWAY P/S UP 28"ILW/HANDRAILS
RAKS P/S
HATCHWAY (OVER) P/S
23" DIA A.O. P/S
MH OVER P/S
GRAB ROD ABV LADDER RUNGS BEL P/S
WING TANK No 11 S.W. BALLAST
48" P/S
15"x 23" AO 24" SILL P/S
23"DIA AO P/S
MH OVER P/S
23"DIA AO P/S
MH OVER
48" P/S FR97
214-516-1-4 J6

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-516-1-4 GD NO. 30211-03x4 FRAME 1 2 3 4
5 6 7 ⑧


50
49
48
47
46
45
44
43
H
G
F
E
D
C
B
A
3 ROLLER PANAMA CANAL CHOCKS P/S
DOUBLE PANAMA CANAL CHOCKS P/S
M-129-2
M-127-2
23" DIA FLWTBPMH
MOORING STATION P/S
NT
BLOCK RACK
ROPE LKR (DA6)
WT
HANGING RODS
M-112-2
30" X 63" WT DR
15½" SILL
M-109-2
23" DIA RAWTBPMH
4" COAM
M-10
30" x 63"
15½" SILL
ELEVATOR
130
125
120
115
STERN GAT
BELOW
STERN GATE
BELOW
MAKE UP RAIL RAN
SHOWN IN OPER PO
SWINGS UP & FWD I
STOWED POSITION
HINGED BRKT OPENINGS FOR SECURING ELEVATOR AT SEA. (TYP P/S
18" BITT P/S
41'-0" P/S
LR P/S
SCUTTLE (OVER) P/S
128
17 3/16" P/S
M-129-1
18" DIA RAWTQA SCUTTLE 4" COAM OPER ABV & BEL P/S
30"X24" VIEWING PORT P/S & 63" UP
PIPERAIL 3 COURSE P/S
36" P/S
46'-6" P/S
20½"
44'-0" P/S
M-127-1
23" DIA FLWTBPMH
MOORING WINCH P/S
8" P/S
18" BITT P/S
FR122
17 3/16" P/S
PANAMA CANAL CHOCK P/S
15" P/S
8" P/S
PIPE RAIL 3 COURSE P/S
20" DIA ROLLER FAIRLEAD P/S
23" DIA A.O. W/4" COAM P/S
PIPE RAIL TOP 36" UP 2 HIGH P/S
21½" P/S
CHAIN P/S
NT
5'-9" P/S
48"x66" ARCH 9" SILL P/S
24" P/S
UNIVERSAL CHOCK P/S
MOORING WINCH P/S
18" BITT P/S
20" DIA ROLLER FAIRLEAD P/S
SINGLE PANAMA CANAL CHOCK P/S
PIPE RAIL 3-COURSE P/S
7'-6" P/S
24" P/S
M-112-1
30"x63" WTDR
17½" COAM
46'-0" P/S
M-109-1
23" DIA RAWTBPMH
4" COAM
HANGING RODS
ROPE LKR (DAF)
WT
BLOCK RACK
7 11/16" P/S
1/4" = 1'-0"
214-S16-1-4

ABBREVIATIONS

A-60	FIRE RETARDENT STL BHD (INSUL)		
AC	ARM CHAIR	MAG	MAGAZINE
AC UNIT	AIR CONDITIONING UNIT	MAINT	MAINTENANCE
AP	ACCESS PANEL	MED	MEDICAL
A-O	FIRE RETARDENT STL BHD (NO INSUL)	MH	MANHOLE
ARR	ARRANGEMENT	MN	MAIN
BHD	BULKHEAD	MACHY	MACHINERY
BR	BOOKRACK		
BO	FIRE RETARDENT STL BHD	NT	NONTIGHT
CHIFF	CHIFFONIER	OPNG	OPENING
℄	CENTER LINE	OUTBD	OUTBOARD
C HTR	CONVECTOR HEATER	P	PORT
COAM	COAMING		
CAB	CABINET		
DIA	DIAMETER	RECPT	RECEPTACLE
DK	DECK	RM	RM
DN	DOWN		
DPFT	DOUBLE PEDESTAL FLAT TOP	S	STARBOARD
DR	DOOR	SC	SIDE CHAIR
DWR	DRAWER	SH	SHOWER
DF	DRINKING FOUNTAIN	S/L	SERVICE LOCKER
EC	EASY CHAIR		
EM	EXPANDED METAL	STA	STATION
ENGR	ENGINEER	STERL	STERILIZER
ET	END TABLE	SWAC	SWIVEL ARM CHAIR
		SPFT	SINGLE PEDESTAL FLAT TOP
FC	FILE CABINET	T/S	TOILET & SHOWER
FD	FIRE DOOR	TW	TYPEWRITER
FR	FRAME	TYP	TYPICAL
FS	FIRE STATION		
FT	FUME TIGHT	UND	UNDER
FWD	FORWARD		
		VL	VERTICAL LADDER
GEN	GENERATOR		
		WB	WASTE BASKET
H	HEAD OF BERTH	WD	WALL DESK
H WAY	HATCHWAY	WR	WARDROBE
IL	INCLINED LADDER	WT	WATERTIGHT
ID	INSIDE DIMENSION		
LKR	LOCKER		
LCR	LOUNGE CHAIR RECLINING		

GENERAL NOTES

1. ~~EXACT LOCATION FOR FITTINGS, ALL ACCESS OPENINGS SHALL BE TAKEN FROM STRUCTURAL PLANS~~
2. SIZES OF ALL HATCHES, MANHOLES, DOORS, ETC, REPRESENT CLEAR OPENING.
3. CLEAR HEADROOM IN ACCOMMODATIONS, WORKING, NAVIGATION SPACES, PASSAGEWAYS, TOILET AND SHOWER SPACES SHALL NOT BE LESS THAN 7'-6". CLEAR HEADROOM UNDER LOCAL POINTS SUCH AS DUCTS, PIPING, LIGHTS, GIRDERS, ETC, SHALL NOT BE LESS THAN 7'-3" IN THE ABOVE SPACES.
4. SILL AND COAMING HEIGHTS ARE FROM TOP OF STEEL DECK TO CLEAR OPENING.
5. SHELL LINING AFT FR 43 P/S ONLY SHALL BE SLOPED PARALLEL TO SHELL PLATING EXCEPT IN T/S SPACES. ALL OTHER SHELL LINING SHALL BE VERTICAL UNLESS OTHERWISE INDICATED.
6. ALL WINDOWS IN STATEROOMS, OFFICES, RECEPTION ROOMS, RECREATION ROOMS, LOUNGE, RADIO ROOM, AND IN WAY OF SOFA BERTH IN CHART ROOM SHALL BE PROVIDED WITH ROLL-UP BLACKOUT SHADES.
7. BERTHS ARE 39" X 81" OVERALL (36" X 78" I D) EXCEPT AS NOTED.
8. JOINER BULKHEADS IN HABITABLE AREAS SHALL BE LOCATED SO AS TO PROVIDE EQUAL AREA FOR ALL CREW AND EQUAL AREA FOR ALL OFFICERS HAVING EQUAL RATINGS.
9. WHERE JOINER BHDS OR LINING ARE INDICATED AS JOINER, THE OVERHEAD OF THE SPACE SHALL HAVE A JOINER CEILING.
10. ARCHWAYS IN WAY OF AREAS WITH JOINER FINISH ARE TRIMMED OPENINGS. (SEE SCHEDULE - JOINER DOORS 30574-15X3)

RESERVATIONS

1. ~~AREA IN WAY OF STERN GATES INCLUDING RECESSES FOR SHEAVES, MAKE-UP RAMP & OTHER BARGE HDLG EQUIPMENT PENDING DEVELOPMENT OF BARGE HANDLING.~~
2. ~~SIZE & LOCATION OF CUTS FOR UPTAKES, VENT, ACCESS, ETC IN MACHY CASING FR 70-82 P/S-PENDING DESIGN DEVELOPMENT OF MACHY SPACE ARR.~~
3. ~~STERN CONFIGURATION AFT FR125 P/S PENDING DEVELOPMENT OF ELEVATOR GUIDANCE SYSTEM & BARGE FENDERING.~~
4. ~~LOCATION OF MHS C-23-1 & C-23-2 PENDING DEVELOPMENT OF STRUCTURE BELOW.~~
5. ~~STANCHIONS FWD FR 25 PENDING STRUCTURAL & ENGINEERING DEVELOPMENT.~~
6. ~~INDICATION OF ELEV GUIDANCE SYSTEM & BARGE FENDERING PENDING DESIGN DEV.~~
7. ~~TRANSPORTER CONTROL STATION FR 107 PENDING FURTHER DEVELOPMENT.~~
8. ~~INDICATION OF WINDLASS CONTROLS & SIDE LOADING CRANE CONTROLS PENDING DESIGN DEVELOPMENT.~~
9. ~~CANTILEVER & ELEVATOR CONFIGURATION AFT FRAME 109 - PENDING DESIGN DEVELOPMENT.~~
10. ~~ENGINEERS PLATFORM HOIST PENDING DESIGN DEVELOPMENT.~~
11. ~~DOOR # C-D-1 PENDING DECISION TO USE CLOSING PLATE IN WAY OF BOW CHOCK SEE CONF REPORT~~
12. ~~CUT SIZE FOR OPENING IN TRANS BHD 9" AFT FR31 IN WAY OF STEAM TABLE.~~
13. ~~1ST ASST ENGR'S RECEPTION RM PENDING RECEIPT OF JAMESTOWN & 30574-30x3, REV B.~~

REVISIONS

ZONE	LTR	DESCRIPTION	Q DIV DATE	Q DIV APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
43D	C	33. MASTER CONTROL STATION INDICATED ON WALKWAY BET FRS 107½-108 ℄ & LOCAL CONTROL STAS INDICATED AT FR 70 & 80 ℄						
19G		34. AFTER BHD IN STAIRWELL FRS 40-42 P LOCATED 38" AFT FR 42 ACCESS PLT INDICATED FWD SIDE VENT & PIPE SPACE.						
49A,G		35. 18" DIA RAWT QA SCUTTLES #C-128-1 & #C-128-2 & GRAB ROD ADDED ON INBD LG BHD BET FRS 128-129 P/S & INDICATED SCUTTLE & VL OVER 46' 5" OFF ℄ 30" FWD 130 P&S						
46A,B&C 46G		36. ACCESS TRUNK TO BARGE ELEVATOR INDICATED BET FRS 119-120 P/S PLAN 46-B ADDED.						
46A,H		37. ARCH IN TRANS WEB FR 119 P/S RELOCATED FROM 6'-4" TO 53" OFF ℄. ARCH IN TRANS WEB FR 77 P/S SIZE CHGD FROM 33"X76" TO 33"X 6'-8½"						
48A,H		38. TRANS W.T. BHD RELOCATED FROM 24 13/16" TO 17 3/16" FWD FR128 P/S.						
43A,H		39. RAWT BP MANHOLE #C-105-1 & C-105-2 RELOCATED FROM 25" TO 45" FWD FR106.						
14D 15D,E		40. GALLEY, THAW SPACE & SERVICE AREA REVISED AS FOLLOWS: HAND WASH LAVATORY & HAND DRYER ADDED IN SERVICE AREA & PORT SIDE OF GALLEY, HEATER & THERM. IN THAW SPACE RELOC TO SINK IN SERVICE AREA. SERVICE REARRANGED TO SUIT.						
14D,15D,E		41. SINK SIZES IN THAW SPACE & GALLEY & SERVICE AREA CHGD						
15D,E		42. OPENING IN N.T. TRANS BHD 9" AFT FR31 OVER STEAM TABLES ETC ADDED. RES #12 ADDED.						
39H,40H		43. "BARGE TRANSPORTER MOTOR GENERATOR RM" ADDED BET FRS 96-109 PORT SEE ITEM #4.						
49A,G 48A,G 47A,G		44. HOOK ON AFT END OF CANTILEVER DELETED. FWD ROLLER AT FR110 P/S & AFT ROLLER AT FR 127½ P/S DELETED RECESS FOR COMBINATION FORE & AFT ROLLERS INDICATED AT FR122 P/S ROLLERS & BRACKETS FOR STERN DOOR INDICATED. RES #1, 6 & 9 RELEASED.						
18A,H,19A,H 20A,H		45. WEB FRS 39, 41, 42, 44 P/S SIZE OF FACE PLT & BRACKET OVER INDICATED.						
22A		46. W.C. IN T/S SPACE FR 49 STBD RELOCATED TO CLEAR STRUCTURE.						
36A,H,39A,H 40A,H,41A,H		47. ARCHES, FRS 88, 94, 99, 102 LOCATION & SIZES ADDED.						
		48. STIFFENERS ADDED TO BHD 128 P/S, 109 P/S, 106 P/S, 99 P/S 94 P/S, 88 P/S, 34 P/S, 24, 22 S TO STRUCT PLAN.						
10D 10, 11		49. CHAIN STOPPER PAWL TYPE RELOCATED FROM FR2 ℄ TO 42" OFF ℄ STBD. ANCHOR HDLG ARRGT UPDATED TO SUIT PL# 30613-06X1.						
GEN		50. FIRE STATIONS RELOCATED & SIZE CHANGED TO SUIT DET DWG #30658-30X01 SOURCE: ITEMS #1-11 INCL TO SUIT COMMENTS IN J.J. HENRY LTR FILE #5589/S16/AHS-444-69 DATED DEC 16, 1969 ITEMS #12, 13, 15-28, 30-34, 37-44, 46-50 TO SUIT DES DEV ITEM #14 TO SUIT C.C. #30 ITEM #29 TO SUIT COAST GUARD REGULATIONS SECT 95.15-35C. ITEM #35 TO SUIT C.C. #39. ITEM #36 TO SUIT C.C. #29. ITEM #45 TO SUIT C.C. #30						

SEE PANEL 9 FOR REV D

REVISIONS

ZONE	LTR	DESCRIPTION	Q DIV DATE	Q DIV APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
34-6H	B	28. DIESEL SPARES RELOCATED & DIESEL GEN RM MODIFIED (P)						
34 6,H,		29. NT BHD AT FR 81(P) ADDED & BHD AT FR 83 (P) DELETED.						
34 6H 36G		30. A-60 ADDED TO BHD AT FR 82(P) & ~~TO~~ INBD LONG'L BHD FR 82-88 (P), & FROM 36" AFT FR 80 TO FR 94(P).						
34H		31. DOOR C-83-2 RELOCATED FROM 33" AFT FR 83 TO 25" AFT FR 82 & DOOR NO CHANGED TO C-82-2.						
34H		32. DOOR C-82-2 RELOCATED FROM 22" FWD FR 83 TO 34" FWD FR 82 & DOOR NO CHANGED TO C-81-2.						
34H		~~33. DOOR C-83-2 RELOCATED FROM 33" AFT FR 83 TO 25" AFT FR 82 & DOOR NO CHANGED TO C-82-2.~~						
35H		34. DR C-83-2 ADDED & DR C-87-2 RELOCATED FROM 56" FWD FR 88 TO 21" AFT FR 87.						
44-49 A&H 46 A&H		35. CANTILEVER FRAME SPACING AFT FR 109 CHANGED, WEB FRAMES MODIFIED, BHD FR 125 P/S RELOCATED TO 24 13/16" FWD FR 128, & DRS C-125-1 & C-125-2 RELOC & NOS CHGD TO C-127-1 & C-127-2						
46 A&H		36. WRACKING BHD ADDED AT FR 119.						
44-48 B&G		37. ELEVATOR CONFIGURATION MODIFIED.						
49 B,G		38. ELEV POSITIONING RAMS ROOM CHANGED TO UNASSIGNED P/S.						
8B		39. RESERVATION NO 9 & 10 ADDED.						
48-49 A-H		40. CANTILEVER CONFIGURATION AFT FR 127 MODIFIED AND DIMENSION 38'-8" OFF ℄ ADDED.						
40 A&H		41. MANHOLES C-99-1 & C-99-2 RELOCATED FROM 20" AFT FR 99 P/S TO 38" AFT FR 99 P/S.						
13 D&E		42. MANHOLES C-23-1 & C-23-2 RELOCATED FROM 15" OFF ℄ P/S TO 21" OFF ℄ (S) & 23" OFF ℄ (P) SOURCE: ITEM 4-19, 25, 26 & 27 TO SUIT JJ HENRY LTR 5589/S16/AHS-278-69 OF 20 AUG 69. ITEM 20-24 TO SUIT DESIGN CORRECTION. ITEM 28-34 TO SUIT DIESEL GEN RM ARR. ITEM 35-40 TO SUIT DESIGN DEVELOPMENT. ITEM 41 & 42 TO SUIT DESIGN DEVELOPMENT & ERECTION PROCEDURE.						
	C	1. PLAN REV "B" APPROVED BY J.J. HENRY LTR FILE 5589/S16/AHS-444-69 DATED DEC. 16, 1969	RSS JBH [illegible]					
		2. PLAN REV "B" APPROVED BY U.S.C.G. LTR GENL DYN 18-20 OF DEC. 17, 1969.						
20A,21A		3. LABEL FOR STATEROOM C-1 CHANGED TO "NIGHT RELIEF MATE" & STATEROOM C-3 TO "NIGHT RELIEF ENGR."						
40H		4. LABLE, "SPARE DOLLIES STOWED" DELETED FROM PASSAGE FRS 97-106 P.						
26A		5. SOFA IN 1ST ASST. ENGRS RECEPTION RM RELOCATED TO PLACE ARM AGAINST INBD & END TABLE ENLARGED TO WIDTH REMAINING BET. SOFA & OUTBD JOINER BHD.						
15C,F		6. BLACKBOARDS ADDED TO GALLEY, OFFICERS & CREW PANTRIES (WAS LISTED IN REV. "B", ITEM #24 BUT NO DONE ON PLAN.						
5H		7. REV. "B", ITEM #33 DELETED (DUPLICATION ITEM #31.) ITEM #30 CORRECTED.						
19A,H 20A,H		8. SHELL LINE OF UPPER DK & INDICATION OF SHELL LONGS. CORRECTED TO SUIT STRUCT.						
34H,35H 36H		9. CLASSIFICATION ADDED FOR BHDS AROUND DIESEL GENERATOR ROOM FRS 82-88 P.						
29B,29H 30B,30H		10. ENCLOSURE BHDS FOR STAIR TOWERS FRS 69-71 P/S CO2 ROOM #1 & #2 & DUMBWAITER FRS 40-41 S. LABELLED CLASSIFICATION "AO".						
12C,20G 42A 44A		11. LOCKER & STOREROOM CODE LETTERS REVISED.						
		12. TRANS WEB RELOCATED FROM 110 TO 7 1/16" FWD FR110 P/S.						
10D		13. BOW CHOCK RELOCATED FROM ℄ TO 42" STBD TO SUIT PLAN 30615-08X3. W.T. DOOR #C-D-1 ADDED AND RES #11 ADDED. SEE ITEM 49.						
10 TO 16 INCL		14. STANCHIONS RELOCATED & ADDED STAN SIZES ADDED TO SUIT STRUCT. CHANGES AS INDICATED ON PLAN #30343-04X1 REV. "B", TRANS. F.T. BHD RELOCATED FROM 12" TO 13 1/8" FWD FR 28 ℄. RES. #5 RELEASED.						
14D		15. MEAT SAW IN THAW SPACE RELOCATED FROM AFT SIDE BHD 28 TO FWD SIDE BHD 29 STBD TO PERMIT ACCESS TO DOOR FOR SERVICING MACHINE.						
8C		16. 6" CORNER RADIUS ADDED FOR STRUCTURAL BHDS IN WAY OF REFRIG SPACES FR 26 P/S.						
14G,C,E 14D		17. DIMENSIONS ADDED LOCATING FOLLOWING STRUCTURAL BHDS: LONG & TRANS FT BHDS FRS 27½-28 P. IN WAY OF CREW W.C. ARCH IN NT BHD 29 LOCATED AT 6'-2" OFF ℄ STBD & LABELED. LONG STRUCT BHD 20'-10", BET FRS 29-31 P/S, DIMENSIONS ADDED.						
11E,12E		18. TRANS STRUCT BHDS RELOCATED FROM 6" AFT TO 4" FWD FR 17 P & FROM FR10 TO FR9 P IN WAY OF PAINT RM & LKR, TO PERMIT BHD STIFFS TO CLEAR RELOCATED HATCHWAY OVER & INCLD LADDER FR 18 P.						
12E		19. ARCH FR 18 P, SIZE NOTED AS 30" X 69" X 9½" SILL.						
12F		20. "BOW THRUSTER" DELETED FROM TITLE OF COMPT BET. FRS 19-23 P. MACHINERY RELOCATED TO TWEEN DK.						
12C		21. LONG N.T. BHD, BET FRS 22-23 STBD, RELOCATED FROM 22'-0½" TO 19'-4¾" OFF ℄ TO AGREE WITH CONTRACT PLAN.						
16C,D&E		22. DOORS TO REFRIGERATED SPACES NUMBERED & LOCATIONS ADDED. SEE PLANS #30575-10X4 & 30575-10X5.						
13D		23. FLNT HATCH #C-24-1 RELOCATED FROM 37" TO 36" OFF ℄ STBD. TO SUIT 30343-04X1 REV. "B".						
15C,D&F 19A,H 30A,H 34A,H 36A,H 19A 15B,G		24. CLASS "AO" BHDS INDICATED IN WAY OF GALLEY, PAINT RM & LKR, STAIR TOWER FR 41-43 P/S, GARBAGE RM, TRANS BHD 29 & 14" FWD 29 P, TRANS FT BHD 43 S & BHDS AROUND DUMBWAITER FR 40 STBD. ACCESS TRUNK FR 29-30½" P/S.						
17D		25. WALKWAY 12'-3" ABV MN DK FRS 34-35 ℄ REVISED TO PERMIT CLEAR DOOR OPENING.						
34A		26. ENGINEERS PLATF. HOIST RELOCATED & BHDS & DOOR #C-82-1 & #C-82-3 RELOCATED TO SUIT SKETCH #M-1271 RES #10 RELEASED.						
34H		27. DOOR #C-82-2 RELOCATED FROM 25" TO 27" & DOOR #C-83-2 RELOCATED FROM 56" TO 62" AFT 83 & SWING CHGD.						
29A		28. AIR COND UNIT & ARM CHAIR TRANSPOSED TO PERMIT INSTALLATION OF A.C. UNIT CLEAR STRUCT UNDER.						
39H		29. FT BHD & FT DR # C-95-2 ADDED 48" AFT FR95, OUTBD OF CO2 RM #2 TO SEPARATE PASSAGE & BARGE TRANS M.G. RM. DR #C-106-2 CHGD FROM NT TO FT AND SIZE CHGD.						
38H,39H		30. FT DOOR #C-93-2 RELOCATED FROM 63" TO 30" FWD FR 94 P. FT BHDS ADDED BET FRS 94-96 P & TRANS FT BHD AT FR96 P & SPACE LABELLED "CO2 ROOM #2 FT DOOR #C-94-2 ADDED. TRANS BHD 94 P CHGD FROM FT TO NT TO FACILITATE VENT DESIGN. (SEE PL #30213-97X1)						
46A,G		31. SPACE IN CANTILEVER BET FRS 109 TO 17 3/16" FWD FR128 P TITLE CHGD FROM "MACHY RM FOR CENTRAL HYD SYSTEM ETC." TO "BARGE ELEVATOR MACHY RM, PORT".						
46A,G		32. "MACHY RM FOR ELEV CONTROLS ETC" FRS 109-128 STBD CHGD TO "BARGE ELEVATOR MACHY RM STBD.						

FOR CONT. SEE NEXT PANEL #6

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
34-36 G,H	A	9. BHDS SURROUNDING DIESEL GEN RM, DR 33" AFT FR83, AND DR 51" FWD FR 88 MADE FUME TIGHT & DOORS NUMBERED C-83-2 & C-87-2 ACCORDINGLY.						
6-8 D		10. GEN NOTE NO 1 DELETED						
		11. BHD FR 23 P/S CHANGED TO WT & DOORS C-23-1 & C-23-2 CHANGED TO WT ACCORDINGLY.						
15H		12. WRITING TABLE IN OFFICERS REC RM RELOCATED.						
15A		13. GAME TABLE IN CREW REC RM RELOCATED.						
		14. BHDS SURROUNDING CO2 ROOM & DOOR C-93-2 MADE FUME TIGHT.						
16-30		15. ALL MED CAB DOORS INDICATED AS RIGHT HAND SWING.						
12,15,19,23,30,36,37,43,44		16. HANDRAILS INDICATED IN WAY OF INCLINED LADDERS.						
		17. RESERVATION NO 4, 5 & 6 ADDED						
36,37 A,H		18. HATCHWAY 12" AFT FR 89 P/S RELOCATED FROM 41'-0" OFF ℄ P/S TO 41'-2" OFF ℄ P/S.						
19A		19. DUMBWAITER AFT FR 40 (S) RELOCATED FROM 51" OFF MAIN LONGL BHD TO 55½" OFF MAIN LONGL BHD.						
16E		20. 10" DIA FIXED LIGHT ADDED TO DOOR C-34-0.						
15 C,F		21. DIMENSION OF NT BHD STBD ABOUT FR 29 CHANGED FROM 31'-6" OFF ℄ P/S TO 31'-7" OFF ℄.						
34-43 A,H		22. AREA FR 82-106 (P) DESIGNATED AS PASSAGE (SPARE DOLLIES STOWED) & AREA FR 82-106 (S) DESIGNATED AS PASSAGE (STOWAGE).						
43,44 A,H		23. HWAY FR 107-108 P/S RELOCATED FROM 50'-0" OF ℄ TO 48'-6" OFF ℄						
15 16 C,D,E		24. THERMOMETERS INDICATED AT STERIL SINKS IN THAW SPACE & GALLEY & BOOSTER HEATER ADDED TO DISHWASHER, SWILL TROUGH ADDED IN SERVICE AREA.						
		25. RES #3 DELETED TO SUIT CANCEL G.D CC #8 (ELIM HOOK-STERN CANT.) SOURCE: ITEM 1-16 18, & 19 TO SUIT JJ HENRY LTR 5589/S16-1/AHS-122-69 OF 5 MAY 69 & TWX-NEMEC TO GD MARAD JJ HENRY OF 6 JUNE 1969 (GEN DYN CC #7 & CONTR CHG MA3). ITEM 20 TO SUIT SPECIFICATION REQUIREMENT ITEM 21 & 22 TO SUIT DESIGN CORRECTION ITEM #23 TO SUIT DESIGN DEVELOPMENT ITEM 24 TO SUIT USPH LTR OF 3 JUNE 69 REV "O" APPROVED BY USCG LTR 5940/GD 18-20 OF 5/26/69, BY USPH LTR OF 6/3/69 & BY J.J. HENRY LTR 5589/S16-1/AHS-122-69 OF 5 MAY 1969 SUBJECT TO COMMENTS AS NOTED ABOVE.						
	B	1. PLAN REV "A" APPROVED BY JJ HENRY LTR 5589/S16/AHS-278-69 OF 20 AUG 69.	RJS 10/27/69	[illegible]				
		2. PLAN REV "A" APPROVED BY USCG LTR 5940/GD 18-20 OF 26 AUG 69.						
		3. PLAN REV "A" APPROVED BY USPH LTR OF 15 AUG 69						
8B		4. RES # 7 ADDED.						
20A 21B		5. SIZE OF DESKS IN NITE RELIEF OFFICERS STATEROOMS INDICATED AS 30" X 24".						
26A		6. SOFA IN 1ST ASST ENGR'S RECEPTION ROOM INDICATED AS 84" LONG						
26A		7. DESK IN 1ST ASST ENGR'S (MAINT) CHANGED TO SPFTD.						
30A 30H		8. LONG'L BHD BETWEEN FRAMES 69-71 RELOCATED TO 8'-3" OFF MAIN LONG'L BHD P/S.						
25H		9. KEY LOCKER INDICATED IN BOSUN'S STATEROOM.						
19A		10. DUMBWAITER DOOR CHANGED TO FIRE DOOR.						
[illegible]		11. FIRE STATIONS NUMBERED & DOORS CHANGED TO DOUBLE DOORS.						
19AH 29AH		12. FIRE STATIONS NO 25, 26, 30, & 31 RELOCATED.						
10D 10E		13. MOORING BITTS FR 3-5 P/S RELOCATED.						
25A 26A 27A 28A [illegible]		14. CURTAINS INDICATED AS SPECIFIED.						
21A 22A		15. INDICATION OF BOOKRACK CHANGED IN NITE RELIEF & CADET STATEROOM.						
20A		16. AC UNIT INDICATED IN NITE RELIEF STATEROOM C-1.						
VARIOUS		17. WASTE BASKETS INDICATED AT SPECIFIED SIZE.						
8-B		18. RESERVATION NO 8 ADDED.						
8-D		19. GENERAL NOTE NO 7 ADDED.						
15C, 34A, 34H 43A, 43H 44A, 44H		20. FIXED LIGHT ADDED TO DOORS C-23-2, C-82-3, C-82-4, C-106-1, C-106-2, C-109-1, & C-109-2.						
37B, 40B 43B		21. RAWT ADDED TO MH C-90-1, C-93-1, C-94-1, C-98-1, C-99-1, & C-105-1.						
37A, 37H 30A, 30H		22. SIZE ADDED TO HATCHWAY 12" AFT 89 P/S & TO HATCHWAY 10" AFT FR 70 P/S.						
25H		23. DESIGNATION, LINEN LKR 50, ADDED (P) FR 57-58.						
15F, 15C		24. BLACKBOARDS ADDED TO GALLEY, CREW PANTRY, & OFFICER PANTRY.						
29H 30A		25. DOORS TO ENGR'S STORES (S) & BAGGAGE RM (P) CHANGED TO FIRE DOORS.						
8D		26. GENERAL NOTES 5, 6, & 8 ADDED.						
8B		27. T/S IN HOSPITAL MODIFIED.						

REVISIONS

ZONE	LTR	DESCPIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
16—30	A	1. STRUCTURAL BHDS ADDED A[illegible] FR 40, 43, 46, 52, 58, 6[illegible] & 69 AND INDICATION OF WEBS ETC REVISED.	RJS 7/14/69	[illegible]				
16—30		2. ARRANGEMENT FR 34-7[illegible] P/S REVISED.						
29,30		3. BHD RUNNING FORE & AFT IN PASSAGE FR 69-71 P/S DE[illegible]						
16—43		4. SIZE OF PILLARS ON ℄ REVISED.						
ALL		5. DOOR IDENTIFICATION NUMBERS REVISED TO REFL[illegible] DECK LETTER IN LIEU OF NUMBER.						
12E		6. SWING OF WT DR C-20-2 CHANGED FROM OUTBD & FWD TO INBD & AFT.						
12F		7. BOW THRUSTER HYDRAULIC MACHY RM FR 19-23 (P) REDESIGNATED BOW THRUSTER AND ANCHOR WINDLASS HYDRAULIC MACHY ROOM.						
15,16 AH		8. WINDOWS IN CREW REC RM (P) AND OFFICERS REC RM (S) INDICATED AS BEING ARCHED TOP & BOTTOM WITH 6" RADIUS CORNERS.						

Paul

REVISIONS	O	A	B	C	D	E	F	G	H	J	M
TO		7 25 9	[illegible]	5 12 0	[illegible]	11 12 0	1 21 1	4 1 1	6 8 1	10 15 1	9 11 [illegible]
LYKES [illegible]					1	—	1	[illegible]	1	1	1
M.A.(WASH)					1	1	1	[illegible]	1	1	1
M.A.(YARD)		1	1	1	1	1	1	[illegible]	1	1	1
J.J.HENRY(YARD)		1	1	1	1	1	1	[illegible]	1	1	1
J.J.HENRY(HOME)					1	1	1	[illegible]	2	2	2
ABS YD		1	1	1	1	1	1	1	1	1	1
USCG YD		1	1	1	1	1	1	[illegible]	1	1	1
USPHS						1		—	—		
865			1								
871		13	16	16	16	13	11	12	14	12	6
872		2	6	4	2	2	2	2	—	—	1
873			6								
874		1	1	1	—						
875											
876		3	3	3	1	1	1	1	—		1
TPS 866		1	1	1	1	1					
I Reed 899 MOB		1	1	1							
LIA 868					2	2	1	1	1	1	1
TOTAL NRO'S FS		25	39	30	30	27	22	17			
TOTAL NRO'S HS									23	21	19
TOTAL RO											

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	7-25-9	800		4
not issued to trades			820		5
30212	B	[illegible]	826	12	12
30212	B	12-12-9	829		
reissue to trades			830	7	7
30212	C	[illegible]	841		
"	D	10-2-[illegible]	842		
"	E	11-18-[illegible]	843		
"	F	1-25-7[illegible]	844		5
"	G	4-1-71	839		
	H	6-9-71	LIBRARY		3
	J	[illegible]	[illegible]	1	
	K	[illegible]	[illegible]		1
	L	4-8-[illegible]	[illegible]	1	1
	M	[illegible]			
			TOTAL	[illegible]	[illegible]

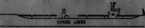
40
38

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
8	C&A-OUTBOARD PROFILE	30211-03X9	241-S16-1-9
7	C&A-INBOARD PROFILE	30211-03X8	241-S16-1-8
6	C&A & GEN ARR-FOCSLE POOP & ABOVE	30211-03X7	241-S16-1-7
5	C&A & GEN ARR-UPPER DECK	30211-03X6	241-S16-1-6
4	C&A & GEN ARR-MAIN DECK	30211-03X4	241-S16-1-4
3	C&A-LOWER DECK & TWEEN DECK	30211-03X3	241-S16-1-3
2	C&A-TANKS BEL LOWER DECK	30211-03X2	241-S16-1-2
1	C&A-INNERBOTTOM & TOP OF INNERBOTTOM	30211-03X1	241-S16-1-1

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
C	39		
C	31	LATER	

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
C	30	LATER	
C	29	LATER	
C	18	20	
A	7	3	18, 19, & 20
O	3	1	18, 19, & 20

Q div DWG NO. 30211-03x5

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN LH
DSGNR RJS [illegible]
SUPV [illegible]
ENGR

COMPT & ACCESS & GEN ARR
CABIN DECK

APPROVED DATE [illegible] 4/1/9
FOR GENERAL DYNAMICS
QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-1-5	M

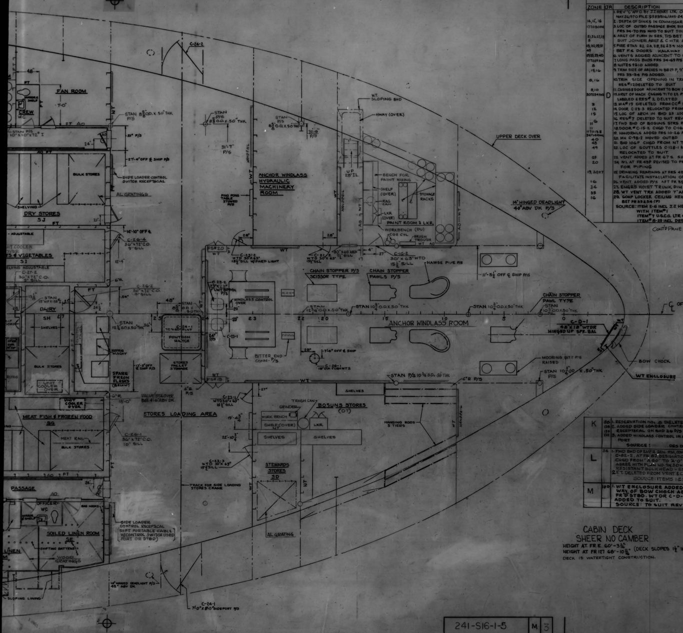
SCALE 1/4" = 1'-0" SHEET 1 OF 1

APPROVAL LTR DATED
ABS
USCG 5/26/9
USPHS 6/3/9

OWNER APPROVAL LTR DATED 5/5/69

KEY PLAN

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S16-1-5 GD NO. 30211-03x5 FRAME 1 ② 3 4
5 6 7 8


14
13
12
11
10
FAN ROOM
CREW W.C.
UPPER DECK OVER
ANCHOR WINDLASS HYDRAULIC MACHINERY ROOM
WT SLOPING BHD
HWAY (OVER)
BENCH FOR PAINT MIXING
STOWAGE RACKS
PAINT ROOM & LKR.
BULK STORES
SIDE LOADER CONTROL SWITCH RECEPTACAL
AL GRATINGS
DRY STORES SJ
14" HINGED DEADLIGHT 40" ABV DK P/S
CHAIN STOPPER P/S SCISSOR TYPE
CHAIN STOPPER PAWLS P/S
HAWSE PIPE P/S
CHAIN STOPPER PAWL TYPE
ANCHOR WINDLASS ROOM
℄ OF SHIP
C-D-1 48"x18" WTDR HINGED UP SPR. BAL
BOW CHOCK
WT ENCLOSURE
PONTOON HATCH
STORES PALLET STORAGE
WINDLASS CONTROL OVER
BITTER END CONN P/S
MOORING BITT P/S RAISED
DAIRY
STORES LOADING AREA
MEAT FISH & FROZEN FOOD SG
MEAT RAIL
BULK STORES
BOSUNS STORES (DT)
WORK BENCH
SHELVES
HANGING RODS 3 TIERS
STEWARDS STORES SD
TRACK FOR SIDE LOADING STORES CRANE
PASSAGE
OFFICER WC
SOILED LINEN ROOM SE
SIDE LOADER CONTROL RECEPTICAL 50 FT PORTABLE CABLE W/CONTROL SWITCH USED PORT OR STBD
AL GRATING
LINEN
SLOPING LINING
12" HINGED DEADLIGHT P/S 42" ABV DK
C-24-1 7'-0" x 8'-0" SIDEPORT P/S

ZONE	LTR	REVISIONS DESCRIPTION	Q DIV DATE	Q DIV APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	D	1. REV "C" APP'D BY J.J. HENRY LTR. OF MAY 26, 1970 FILE: 5589/S16/AHS-248-70	RS 9/12/70					
14,15,16		2. DEPTH OF SINKS IN COMMISSARY SPACE ADDED.						
17 TO 30 INCL		3. LOC OF OUTBD PASSAGE BHDS, SHEATHING AROUND STIFFS & FIRE STA FRS 34-70 P/S MOD TO SUIT JOINER ARGTS.						
21,26,27,18 8		4. ARGT OF FURN IN SRS, T/S BET FRS 34-70 P/S & CH ENG OFF MOD TO SUIT JOINER ARGT & C HTR ADDED TO ABR LIST						
18,20,29,31 48		5. FIRE STAS 23, 24, 28, 32 & 34 MOVED TO PORT TO PROVIDE CLEARANCE BET F.S. DOORS WALKWAY RAILS						
29,35,39,40		6. VENTS ADDED ADJACENT TO ℄ AT FRS 68-70, 82, 95-99						
17 TO 29 INCL		7. LONG PASS BHDS FRS 34-69 P/S MARKED BO & BO ADDED TO ABR LIST						
8		8. NOTES 9 & 10 ADDED						
15,16		9. TRIM SIZE OF ARCHES IN BHD 29 P, 9" AFT 31 P/S & LONG BHD 27'-4" OFF ℄ FRS 33-34 P/S ADDED.						
8,16		10. TRIM SIZE OPENING IN TRANS. BHD 9" AFT 31 ADDED RES# 12 DELETED TO SUIT						
8,10		11. CASING & DOOR ADJACENT TO BOW CHOCK DELETED, RES# 11 DELETED TO SUIT						
30 TO 34 INCL		12. ARGT OF MACH CASING 71 TO 82 P/S MOD TO SUIT MECH DEV, OPNGS LABELED & RES# 2 DELETED						
3		13. MA# 19 DELETED FROM CC# 39						
12		14. DOOR C-23-3 RELOCATED FROM 29'-6 5/8" OFF ℄ TO 22'-10 3/4"						
15		15. LOC OF ARCH IN BHD 29 ADDED						
6		16. RES# 7 DELETED TO SUIT REV "C" ITEM 33						
11		17. FWD BHD OF BOSUNS STRS RELOCATED FROM FR 10 TO FR 9						
11		18. DOOR # C-15-2 CHGD TO C-16-2						
11 TO 13 & 34 TO 44 INCL		19. HANDRAILS ADDED FRS 10-26 P/S & 82-109 P/S & HWAY BET FRS 77 & 78 P/S						
40		20. MH C-98-2 MOVED OUTBD						
43		21. BHD 106P CHGD FROM NT TO FT						
49		22. LOC OF SCUTTLES C-128-1 & C-128-2 MODIFIED GRAB RODS OVER RELOCATED TO SUIT.						
29		23. VENT ADDED AT FR 67 S. SHEATHING MOD TO SUIT						
20		24. S/L AT FR 43P REVISED TO PROVIDE GREATER SPACE ADJACENT FOR PIPING						
19,20,27		25. DRINKING FOUNTAINS AT FRS 42P, 45S & 62 P/S RELOCATED TO FACILITATE INSTALLATION OF FDN.						
16		26. VENT ADDED P/S AFT FR 35.						
34		27. ENGR'S HOIST TRUNK DIM CHGD FROM 71" TO 72".						
35		28. WT VENT TRK ADDED 7" AFT 84 & 41'-9" OFF ℄ SHIP (P)						
16		29. SOAP LOCKER CEILING HEIGHT 7'-3" ABV DK. ADDED BET FR 33 & 34 (P)						
		SOURCE: ITEM 2-6 INCL J.J. HENRY MARKED PRINT FORWARD WITH ITEM# 1 ITEM# 7 U.S.C.G. LTR OF JUNE 10, 1970 ITEM# 8-29 INCL DES DEV						

CONT'D PANEL #50

K	8D 13B 13F 13E	1. RESERVATION NO. 8 DELETED. 2. ADDED SIDE LOADER CONTROL RECEPTACAL ON BHD 26 P/S & PORTABLE CABLE WITH CONTROLS 3. ADDED WINDLASS CONTROL IN ANCHOR WINDLASS RM ABT FR 23½ PORT SOURCE: . DES DEV.	JK 7/72					
L	34	1. FWD BHD OF EMER. GEN. RM, COMPT. C-82-2, AT FR 82, DESIGNATION CHGD FROM "A 60" TO "A-0" TO AGREE WITH PLAN NO. SK30H-21-2 - INDICATION OF FIRE RESISTANT BULKHEAD - REV. C. 2. F.T. DELETED FROM VENT & CABLE SPACE TRANS. BHD 34 P/S. SOURCE: ITEMS 1 & 2 DES CORR.	A.L.V.					
M	10D	1. WT ENCLOSURE ADDED IN WAY OF BOW CHOCK ABT FR "D" STBD. WT DR C-D-1 ADDED TO SUIT. SOURCE: TO SUIT REV "D" OF PLAN 30G15-08x3	FF					

CABIN DECK
SHEER NO CAMBER

HEIGHT AT FR E 60'-3 1/16"
HEIGHT AT FR 127 68'-10 11/16" (DECK SLOPES 1½" IN 12'-6")
DECK IS WATERTIGHT CONSTRUCTION.

ABBREVIATIONS

A-60	FIRE RETARDENT STL BHD (INSUL)		
AC	ARM CHAIR	MAG	MAGAZINE
AC UNIT	AIR CONDITIONING UNIT	MAINT	MAINTENANCE
AP	ACCESS PANEL	MED	MEDICAL
A-0	FIRE RETARDENT STL BHD (NO INSUL)	MH	MANHOLE
ARR	ARRANGEMENT	MN	MAIN
BHD	BULKHEAD	MACHY	MACHINERY
BR	BOOKRACK		
BO	FIRE RETARDENT STL BHD	NT	NONTIGHT
CHIFF	CHIFFONIER	OPNG	OPENING
℄	CENTER LINE	OUTBD	OUTBOARD
C HTR	CONVECTOR HEATER	P	PORT
COAM	COAMING		
CAB	CABINET		
DIA	DIAMETER	RECPT	RECEPTACLE
DK	DECK	RM	RM
DN	DOWN		
DPFT	DOUBLE PEDESTAL FLAT TOP	S	STARBOARD
DR	DOOR	SC	SIDE CHAIR
DWR	DRAWER	SH	SHOWER
DF	DRINKING FOUNTAIN	S/L	SERVICE LOCKER
EC	EASY CHAIR		
EM	EXPANDED METAL	STA	STATION
ENGR	ENGINEER	STERL	STERILIZER
ET	END TABLE	SWAC	SWIVEL ARM CHAIR
		SPFT	SINGLE PEDESTAL FLAT TOP
FC	FILE CABINET	T/S	TOILET & SHOWER
FD	FIRE DOOR	TW	TYPEWRITER
FR	FRAME	TYP	TYPICAL
FS	FIRE STATION		
FT	FUME TIGHT	UND	UNDER
FWD	FORWARD		
		VL	VERTICAL LADDER
GEN	GENERATOR		
		WB	WASTE BASKET
H	HEAD OF BERTH	WD	WALL DESK
HWAY	HATCHWAY	WR	WARDROBE
IL	INCLINED LADDER	WT	WATERTIGHT
ID	INSIDE DIMENSION		
LKR	LOCKER		
LCR	LOUNGE CHAIR RECLINING		

GENERAL NOTES

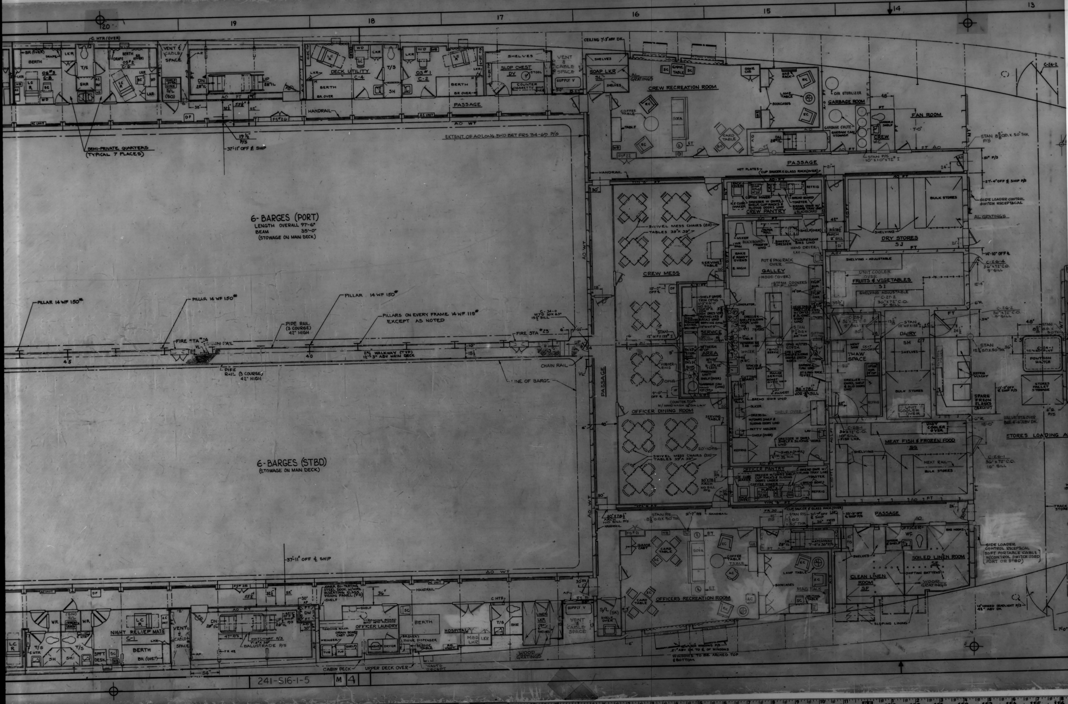
~~1. [illegible]~~
2. SIZES OF ALL HATCHES, MANHOLES, DOORS, ETC, REPRESENT CLEAR OPENING.
3. CLEAR HEADROOM IN ACCOMMODATIONS, WORKING, NAVIGATION SPACES, PASSAGEWAYS, TOILET AND SHOWER SPACES SHALL NOT BE LESS THAN 7'-6". CLEAR HEADROOM UNDER LOCAL POINTS SUCH AS DUCTS, PIPING, LIGHTS, GIRDERS, ETC, SHALL NOT BE LESS THAN 7'-3" IN THE ABOVE SPACES.
4. SILL AND COAMING HEIGHTS ARE FROM TOP OF STEEL DECK TO CLEAR OPENING.
5. SHELL LINING AFT FR +3 P/S ONLY SHALL BE SLOPED PARALLEL TO SHELL PLATING EXC IN T/S SPACES. ALL OTHER SHELL LINING SHALL BE VERTICAL UNLESS OTHERWISE
6. ALL WINDOWS IN STATEROOMS, OFFICES, RECEPTION ROOMS, RECREATION ROOMS, LOUN RADIO ROOM, AND IN WAY OF SOFA BERTH IN CHART ROOM SHALL BE PROVIDED WITH ROLL-UP BLACKOUT SHADES.
7. BERTHS ARE 39" X 81" OVERALL (36" X 78" ID) EXCEPT AS NOTED.
8. JOINER BULKHEADS IN HABITABLE AREAS SHALL BE LOCATED SO AS TO PRO EQUAL AREA FOR ALL CREW AND EQUAL AREA FOR ALL OFFICERS HAVING EQUAL RATINGS.
9. WHERE JOINER BHDS OR LINING ARE INDICATED AS JOINER, THE OVERHEAD OF THE SPACE SHALL HAVE A JOINER CEILING.
10. ARCHWAYS IN WAY OF AREAS WITH JOINER FINISH ARE TRIMMED OPENINGS. (SEE SCHEDULE - JOINER DOORS 30574-15X3)

RESERVATIONS

1. ~~AREA IN WAY OF STERN GATES INCLUDING RECESSES FOR SHEAVES, MAKE-UP RAMP & OTHER BARGE HDLG EQUIPMENT PENDING DEVELOPMEN OF BARGE HANDLING.~~
2. ~~SIZE & LOCATION OF CUTS FOR UPTAKES, VENT, ACCESS, ETC IN MACHY CA FR 70-82 P/S-PENDING DESIGN DEVELOPMENT OF MACHY SPACE AR~~
3. ~~STERN CONFIGURATION AFT FR 125 P/S PENDING DEVELOPMENT ELEVATOR GUIDANCE SYSTEM & BARGE FENDERING.~~
4. ~~LOCATION OF MHS C-23-1 & C-23-2 PENDING DEVELOPMENT OF STRUCTURE BELOW~~
5. ~~STANCHIONS FWD FR 25 PENDING STRUCTURAL & ENGINEERING DEVELOPMENT~~
6. ~~INDICATION OF ELEV GUIDANCE SYSTEM & BARGE FENDERING PENDING DESIGN~~
7. ~~TRANSPORTER CONTROL STATION FR 107 PENDING FURTHER DEVELOPMENT~~
8. ~~INDICATION OF WINDLASS CONTROLS & SIDE LOADING CRANE CONTROLS PENDIN DESIGN DEVELOPMENT.~~
9. ~~CANTILEVER & ELEVATOR CONFIGURATION AFT FRAME 109 - PENDING DESIGN DEV~~
10. ~~ENGINEERS PLATFORM HOIST PENDING DESIGN DEVELOPMENT.~~
11. ~~DOOR # C-D-1 PENDING DECISION TO USE CLOSING PLATE IN WAY OF BOW CHOCK CONF REPORT~~
12. ~~CUT SIZE FOR OPENING IN TRANS BHD 9" AFT FR 31 IN WAY OF STEAM TABLE~~
13. ~~ASST. ENGR'S RECEPTION RM PENDING RECEIPT OF JAMESTOWN # 30574-30x3, REV B~~

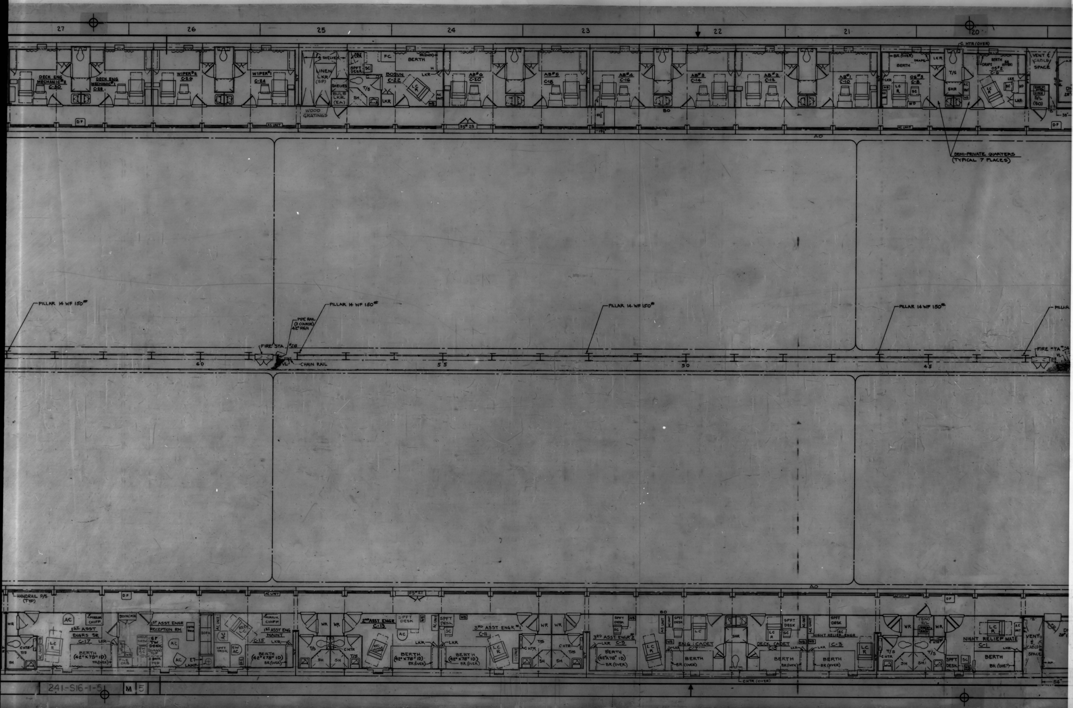
241-S16-1-5 M 3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-516-1-5 GD NO. 30211-03x5 FRAME 1 2 ③ 4
5 6 7 8

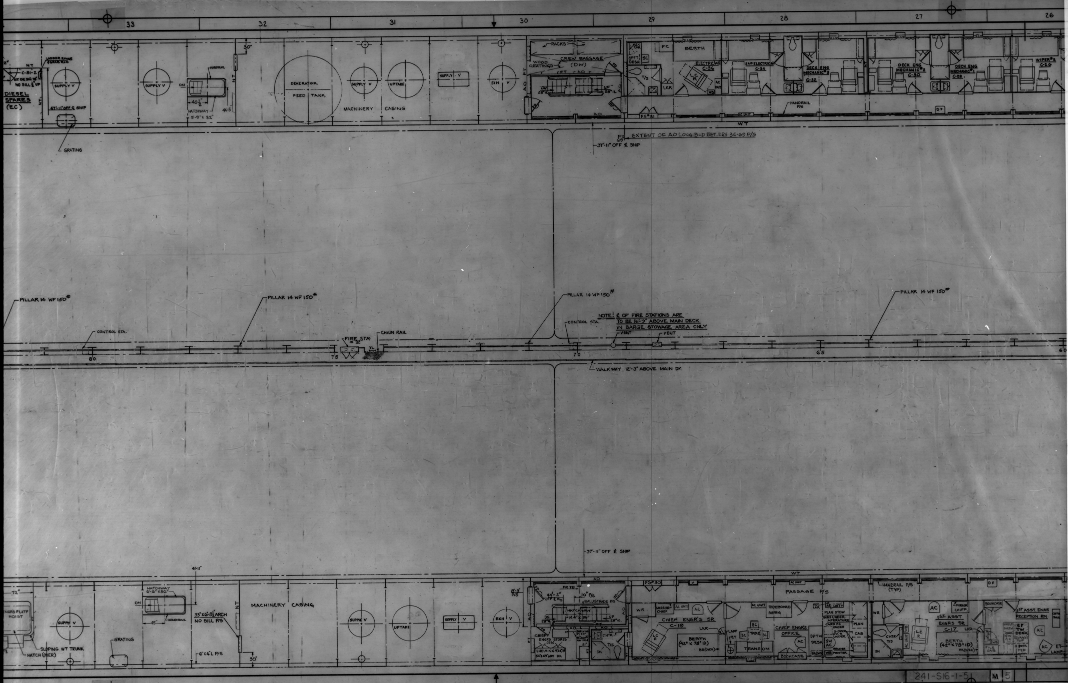

20
19
18
17
16
15
14
13
DEMI-PRIVATE QUARTERS (TYPICAL 7 PLACES)
DECK UTILITY C-4
OS #1 C-2
OS #2 C-6
OS #3 C-8
SLOP CHEST DV
SOAP LKR SL
CREW RECREATION ROOM
GARBAGE ROOM
FAN ROOM
CREW W.C.
PASSAGE
HANDRAIL
AO WT
EXTENT OF AO LONG BHD BET FRS 34-65 P/S
6-BARGES (PORT) LENGTH OVERALL 97'-6" BEAM 35'-0" (STOWAGE ON MAIN DECK)
6-BARGES (STBD) (STOWAGE ON MAIN DECK)
PILLAR 14 WF 150#
PILLARS ON EVERY FRAME 14 WF 119# EXCEPT AS NOTED
PIPE RAIL (3 COURSE) 42" HIGH
CHAIN RAIL
FIRE STA #24
FIRE STA #23
LINE OF BARGE
37'-11" OFF ℄ SHIP
CREW MESS
SWIVEL MESS CHAIRS (20) TABLES 39" x 39"
CREW PANTRY
GALLEY
SERVICE AREA
OFFICER DINING ROOM
OFFICER PANTRY
DRY STORES SJ
BULK STORES
FRUITS & VEGETABLES SI
DAIRY SH
THAW SPACE
MEAT FISH & FROZEN FOOD SG
SPARE FREON FLASKS
STORES LOADING AREA
PONTOON HATCH
STORES PALLET STORAGE
SIDE LOADER CONTROL SWITCH RECEPTACAL
AL GRATINGS
OFFICERS RECREATION ROOM
OFFICER W.C.
SOILED LINEN ROOM SE
CLEAN LINEN ROOM SF
NIGHT RELIEF MATE C-1
OFFICER LAUNDRY
HOSPITAL
VENT & CABLE SPACE
WOOD GRATINGS
CABIN DECK
UPPER DECK OVER
241-516-1-5
M 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

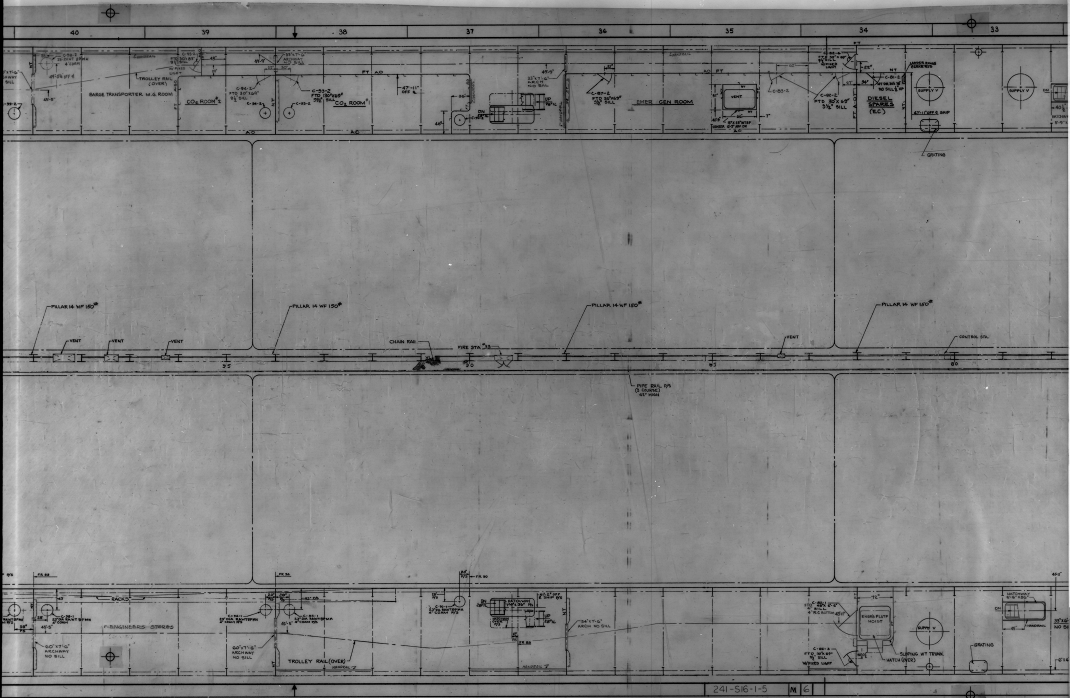
MA NO. 241-516-1-5 GD NO. 30211-03x5 FRAME 1 2 3 ④
5 6 7 8


27
26
25
24
23
22
21
20
DECK ENG MECHANIC #2 C-30
DECK ENG MECHANIC #1 C-28
WIPER #2 C-26
WIPER #1 C-24
LINEN LKR (SP)
BULB LKR (EA)
SHELVES
WOOD GRATINGS
SPFT DESK
BOSUN C-22
BERTH
LKR
AB #6 C-20
AB #5 C-18
AB #4 C-16
AB #3 C-14
AB #2 C-12
AB #1 C-10
OS #3 C-8
OS #2 C-6
C. HTR (OVER)
VENT & CABLE SPACE
SEMI-PRIVATE QUARTERS (TYPICAL 7 PLACES)
DF
AC UNIT
FS #29
AO
PILLAR 14 WF 150#
PILLAR 14 WF 150#
PILLAR 14 WF 150#
PILLAR 14 WF 150#
PIPE RAIL (3 COURSE) 42" HIGH
FIRE STA #28
CHAIN RAIL
FIRE STA #24
60
55
50
45
HANDRAIL P/S (TYP)
FS #27
1ST ASST ENGRS SR C-17
BERTH (42" X 78" ID)
1ST ASST ENGR RECEPTION RM
1ST ASST ENG MAINT C-15
2ND ASST ENGR C-13
3RD ASST ENGR #1 C-11
3RD ASST ENGR #2 C-9
ENG CADET C-7
DECK CADET C-5
NIGHT RELIEF ENGR C-3
NIGHT RELIEF MATE C-1
BR (OVER)
CHTR (OVER)
241-516-1-5
M 5

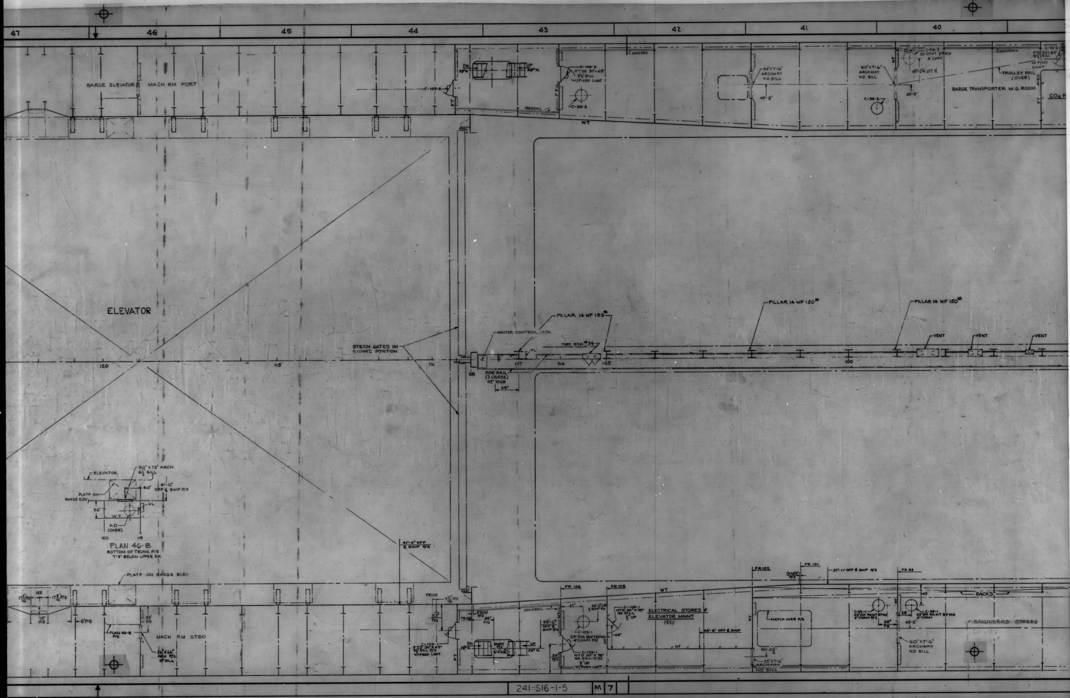
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-516-1-5 GD NO. 30211-03X5 FRAME 1 2 3 4 ⑤ 6 7 8


33
32
31
30
29
28
27
26
DIESEL SPARES (EC)
LADDER RUNGS
GRATING
47'-11" OFF ℄ SHIP
SUPPLY V
HANDRAIL
HATCHWAY 5'-9" X 32"
DEAERATOR FEED TANK
UPTAKE
MACHINERY CASING
EXH V
RACKS
CREW BAGGAGE (DW)
WOOD GRATINGS
BERTH
ELECTRICIAN C-36
ENG ELECTRICIAN C-34
DECK ENG MECHANIC C-32
DECK ENG MECHANIC C-30
DECK ENG MECHANIC C-28
WIPER C-26
HANDRAIL P/S
WT
EXTENT OF AO LONG. BHD BET. FRS 34-69 P/S
37'-11" OFF ℄ SHIP
PILLAR 14 WF 150#
CONTROL STA.
FIRE STA #35
CHAIN RAIL
NOTE: ℄ OF FIRE STATIONS ARE TO BE 11'-9" ABOVE MAIN DECK IN BARGE STOWAGE AREA ONLY
VENT
80
75
70
65
60
WALKWAY 12'-3" ABOVE MAIN DK
ENGRS PLATF HOIST
SLOPING WT TRUNK
HATCH (OVER)
HATCHWAY 6'-6" X 36"
33" X 6'-6" ARCH NO SILL P/S
6' X 4' L P/S
BALUSTRADE P/S
CHIEF ENGRS STORES
PASSAGE P/S
CHIEF ENGR'S SR C-19
BERTH (42" X 78" ID)
SIDEBOARD REFRIG
TRANSOM
CHIEF ENGR'S OFFICE
BOOKCASE
1ST ASST ENGRS SR C-17
1ST ASST ENGR RECEPTION RM
241-S16-1-5 M 5

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-516-1-5 GD NO. 30211-03x5 FRAME 1 2 3 4 5 ⑥ 7 8

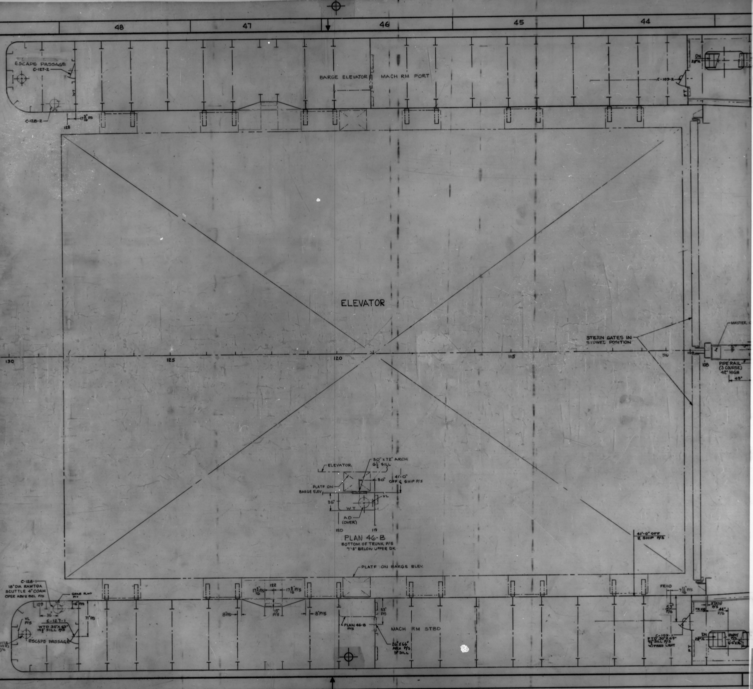

40
39
38
37
36
35
34
33
BARGE TRANSPORTER M.G. ROOM
TROLLEY RAIL (OVER)
CO₂ ROOM #2
CO₂ ROOM #1
C-95-2
C-94-2
C-93-2
FTD 30"X69" 9½" SILL
33"X7'-6" ARCHWAY NO SILL
47'-11" OFF ℄
AO
FT
33"X7'-6" ARCH NO SILL
C-87-2 FTD 30"X69" 9½" SILL
EMER GEN ROOM
VENT
15"X23" WTSP
C-83-2
C-82-2 FTD 30"X69" 9½" SILL
C-81-2
DIESEL SPARES (EC)
LADDER RUNGS & GRAB ROD
SUPPLY V
47'-11" OFF ℄ SHIP
GRATING
HATCHWAY
PILLAR 14 WF 150#
VENT
CHAIN RAIL
FIRE STA #33
CONTROL STA.
95
90
85
80
PIPE RAIL P/S (3 COURSE) 42" HIGH
FR 99
FR 96
FR 90
RACKS
ENGINEERS STORES
C-98-1
C-96-1
C-93-1
23" DIA RAWTBPMH 4" COAM P/S
60"X7'-6" ARCHWAY NO SILL
TROLLEY RAIL (OVER)
HANDRAIL
HATCHWAY 7'-6"X36" P/S
DN
UP
54"X7'-6" ARCH NO SILL
C-82-1 FTD 48"X6'-6" 4" SILL 4" R.C BOTTOM
ENGRS PLATF HOIST
SLOPING WT TRUNK
HATCH (OVER)
C-82-3 FTD 30"X69" 9½" SILL W/FIXED LIGHT
SUPPLY V
GRATING
HATCHWAY 6'-0"X36"
HANDRAIL
241-516-1-5
M 6

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-516-1-5 GD NO. 30211-03X5 FRAME 1 2 3 4 5 6 ⑦ 8


47
46
45
44
43
42
41
40
BARGE ELEVATOR
MACH RM PORT
C-109-2
DN 28" IL
UP 28" IL
C-106-2 FTDR 30"x69" 9½" SILL W/FIXED LIGHT
C-105-2
HANDRAIL
WT
54"x7'-6" ARCHWAY NO SILL
45'-8"
60"x7'-6" ARCHWAY NO SILL
C-99-2
C-98-2 23" RAWT BP MH 4" COAM
28
49'-0¼" OFF ℄
45'-5"
℄ HANDRAIL
TROLLEY RAIL (OVER)
BARGE TRANSPORTER M.G. ROOM
C-95-2 FTD 30"x83" 9½" SILL W/FIXED LIGHT
CO₂ R
ELEVATOR
STERN GATES IN STOWED POSITION
MASTER CONTROL STA
PILLAR 14 WF 193#
FIRE STA #34
PIPE RAIL (3 COURSE) 42" HIGH
48"
PILLAR 14 WF 150#
PILLAR 14 WF 150#
VENT
VENT
VENT
120
115
110
109
108
107
106
105
100
ELEVATOR
30"x72" ARCH 6½" SILL
PLATF ON BARGE ELEV
30"
41'-0" OFF ℄ SHIP P/S
36"
VL
WT
A.O. (OVER)
120
119
PLAN 46-B
BOTTOM OF TRUNK P/S 7'-8" BELOW UPPER DK
41'-0" OFF ℄ SHIP P/S
PLATF ON BARGE ELEV
17⅝" P/S
122
17⅝" P/S
15" P/S
8" P/S
53" P/S
PLAN 46-B P/S
MACH RM STBD
26"x66" ARCH P/S 9" SILL
FR110
7 11/16" P/S
53" P/S
3"(KN) P/S
FR108
44" P/S
C-109-1 FTD 30"x69" 9½" SILL P/S W/FIXED LIGHT
DN 28" IL
HWAY P/S 6'-6"x36"
UP 28" IL
HANDRAIL
48'-6" OFF ℄ SHIP P/S
59" P/S
FR 106
FR 105
45"
44'-0" OFF ℄ SHIP P/S
C-105-1 23" DIA RAWTBPMH 4" COAM P/S
C-106-1 NTD 30"x78" NO SILL-STBD ½" UP W/FIXED LIGHT
C-105-1 NTD 30"x78" NO SILL ½" UP
48"
ELECTRICAL STORES & ELEVATOR MAINT (ED)
NT
48'-8" OFF ℄ SHIP
FR102
HATCH OVER P/S
50'-0¾"
33"x7'-6" ARCHWAY NO SILL
FR 101
(KN)3" P/S
37'-11" OFF ℄ SHIP P/S
FR 99
C-99-1 23" DIA RAWT BPMH 4" COAM P/S
38" P/S
28"
C-98-1 23" DIA RAWT BPMH 4" COAM
43
45'-5"
60"x7'-6" ARCHWAY NO SILL
RACKS
ENGINEERS STORES
241-S16-1-5
M
7

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	E	1. PLAN REV. "D" HAS BEEN APP'D. BY J.J.HENRY LTR., FILE: 5589/516/JUM-494-70 DATED OCTOBER 20, 1970.	VDG 11/19/70 a00	F.Roy				
14		2. 2" SILL HEIGHT ADDED TO ARCH BET. GALLEY & PASSAGE AT FR 29 P TO FACILITATE GALLEY WASHDOWN.						
13,14,15		3. DESIGNATION OF FIRE RETARDANT BHDS IN GALLEY, THAW SPACE & ADJACENT AREAS REVISED. 36"×78½" STL JNR DR. ADDED IN TRANS. BHD 29, 66" OFF ℄(S) IN LIEU OF 40"×80" ARCH TO SUIT USCG REQUIREMENT.						
16		4. STANCHION 31'-7" OFF ℄ P, FR 32 ADDED.						
15,16		5. ARR OF CREW RECREATION & OFFICER RECREATION ROOMS REVISED TO AGREE WITH JOINER ARR PLAN.						
12		6. STANCHIONS FR 22, P/S RELOC. FROM 31'-7" OFF ℄ TO 31'-9". SOURCE: ITEMS #2,3,4 & 5 TO SUIT J.J.HENRY LTR., FILE: 5589/516/JUM-494-70 DATED OCT. 20, 1970. ITEM #6 TO SUIT STRUCTURAL DEV.						
	F	1. PLAN REV "E" APP'D BY J.J.HENRY LTR., FILE: 5589/516/JUM-565-70, DATED DEC. 16, 1970.	VDG 1-29-71 a28	F.Roy			19 JAN 1971	WCA
		2. PLAN REV "E" APP'D BY USCG LTR., GENL DYN 18-20 DATED DEC. 2, 1970.						
7.26		3. RES #13 ADDED.						
		4. CREW & OFFICER'S RECREATION REVISED.						
13,14		5. VALVE CONTROL STA. IND. OVER IN MEAT, FISH & FROZEN FOOD ROOM.						
VARIOUS		6. FIRE RESISTANT BOUNDARY BHDS ADDED IN THE FOLLOWING SPACES: LONG. BHD 31'-7" OFF ℄ BET FRS 26 & 14" FWD FR 29(S)., LONG. BHD IN DUCT & WIRING SPACE FR 34 TO 5'-0" AFT FR 34(P)., TRANSV BHD IN DUCT & WIRING SPACE 5'-0" AFT FR 34(P)., LONG BHD IN DUCT & WIRING SPACE FR 34 TO 4'-10" AFT FR 34(S)., TRANSV BHD IN DUCT & WIRING SPACE 4'-10" AFT FR 34(S)., TRANSV BHD IN DUCT & WIRING SPACE 4'-6" AFT FR 42(S) & LONG BHD IN DUCT & WIRING SPACE ABT 3'-2" AFT FR 42 TO FR 43, 55½" OUTBD OF 37'-11" LONG BHD(P).						
VARIOUS		7. ALUM & WOOD GRATINGS IND. IN LINEN LKRS., STOREROOMS., CREW BAGGAGE & SOAP LKR.						
30,36		8. DIESEL GEN ROOM CHGD TO EMERG. GEN ROOM & ENGR'S STORES CHGD TO CHIEF ENGR'S STORES.						
13		9. SIZE OF SIDEPORT DRS C-24-1 & C-24-2 REVISED FROM 7'-6"×8'-9" TO 7'-0"×8'-0".						
14		10. SIZE OF REFRIG DOORS FOR THE FOLLOWING HAVE BEEN CHGD TO 36": C-28-1 & 2, C-27-2 & C-26-2 & LOCATIONS HAVE BEEN CHGD FOR THE FOLLOWING DRS: C-28-1 RELOC FROM 40 TO 42" FWD FR 29., C-28-2 RELOC FROM 38" TO 39½" FWD FR 29 & C-27-2 RELOC FROM 28½" OFF ℄ TO 30" OFF ℄. SOURCE: ITEM #3 PENDING RECEIPT OF JAMESTOWN PL 30574-30×3, REV. B. ITEM #4 TO SUIT ENCL B ITEM #3 OF J.J. HENRY LTR ITEM #1 ABOVE. ITEM #5 TO SUIT 872 DEPT I.R.M 12-01-70 #3. ITEM #6 TO SUIT ENCL B ITEM #2 OF J.J.HENRY LTR ITEM #1 ABOVE & SK 30H-21-2. ITEM #7 TO SUIT PLS 30573-82×1, MARAD #241-514-01-01 & 30573-82×2, MARAD #241-514-01-03. ITEM #8 TO SUIT J.J. HENRY LTR., FILE 5589/512/JUM-453-70 DATED OCT 6, 1970. ITEM #9 TO SUIT 872 DEPT ENG'S I.R.M DATED 1-7-71. ITEM #10 TO SUIT E.C.S PLS 30575-10×4, MARAD #241-539-01-04, 30575-10×5. MARAD #241-534-01-05.						
15		11. CREW & OFFICER'S REC ROOMS REARR.						
14		12. "FREON CONTROL" BOX CHANGED TO "CONTROL PANEL" & RELOC TO FWD SIDE OF BHD 27" FWD OF FR 27(S). SPARE FREON FLASKS & UNIT COOLERS ADDED.						
9		13. CONTINUATION PANEL ADDED.						
8,49		14. "UNASSIGNED" AFT FR 128 P/S CHGD TO "ESCAPE PASSAGE".						
14		15. LONGL. BHD 31'-7" OFF ℄ IN WAY OF GARBAGE RM ADDED "AO".						
		16. LONGL. BHD 27'-4" OFF ℄ P/S IN WAY OF CREW & OFFICER'S MESS ADDED "AO".						
15		17. LONGL. BHD 31'-7" OFF ℄(S) IN WAY OF STAIRWAY FR 29-31 ADDED "AO".						
16		18. TRANS BHD 34 ADDED "AO" WHICH INCLUDES FWD BHDS OF VENT & CABLE DUCT P/S.						
VARIOUS		19. LONGL. BHD 37'-11" OFF ℄ P/S BET FRS 34-69 ADDED "AO".						
17,20		20. NOMENCLATURE FOR "DUCT & WIRING SPACE" CHGD TO "VENT & CABLE SPACE".						
		21. ENGR'S STORES & PASSAGE FRS 74-79(S) CHGD TO ENGR'S STORES. SOURCE: ITEM #14 TO SUIT I.W.W. I.R.M. DATED 1-19-71. ITEMS #11-13 INCL & 15-21 INCL TO SUIT J.J. HENRY COMMENTS ON I.R.M 5-0432.						
	G	1. PLAN REV "F" APPROVED LOCALLY BY J.J.HENRY REPRESENTATIVE BY IRM # 514-0432 DATED 1-12-71.	3	1/29/71 F.Roy			29 MAR 1971	WCA
26		2. 1ST ASST ENGR RECEPTION ROOM, FR 60-62(S), REARR TO SUIT J.J. HENRY LTR FILE: 5589/533/JUM-555-70, DTD DEC 9, 1970. RES #13 RELEASED TO SUIT.						
10		3. 14" HINGED DEAD LIGHT BET. FR 1 & 2, P & S, RELOC FROM 54" TO 40" ABOVE DK.						
13		4. 14" HINGED DEADLIGHT BET. FR 25 & 26, P & S, RELOC FROM 54" TO 42" ABOVE DK.						
14		5. SPARE FREON FLASKS & REFRIGERATOR MACHY RELOC. BET. FR 26-27(S) TO SUIT PIPING ARR.						
15		6. ¾" SILL HGT ADDED TO DOOR FROM GALLEY TO THAW ROOM AT FR 29(S).						
17		7. LINING INDICATED AT FWD SIDE OF SLOP CHEST (P) & LINEN LKR (S) BET FR 34 & 35.						
34		8. LADDER RUNGS & GRAB RODS INDICATED AT AFT SIDE OF BHD 81 (P) FOR ACCESS TO VENT FAN, TO SUIT 872 DEPT IRM 12-30-70 #4 SOURCE: ITEM 2; RELEASES ANDC-S-0485-LYKES. ITEMS 3 THRU 8, DES DEV.						
16 20 23 24 25 26 27 28 29 37 38 39	H	1. PLAN REV "G" APPROVED LOCALLY BY J.J HENRY REPRESENTATIVE BY IRM #S-0279 DATED 3/24/71 APPD 3/29/71.	6/1/71	F.Roy			7 JUN 1971	WCA
		2. PLAN REV "F" APPROVED BY USCG LTR 5940/GD 18-20 DATED 30 MARCH 1971.						
		3. PLAN REV "G" APPROVED BY USCG LTR 5940/GD 18-20 DATED 15 APRIL 1971.						
		4. DOORS 29'-4" OFF ℄, P & S AT FR 26 DESIGNATED AS AO DOORS.						
		5. LONG. BHDS 27'-4" OFF ℄, P & S BET FR 29 & 33½ REVISED FROM "AO" TO TYPE "B".						
		6. FIXED LIGHTS ADDED TO DOORS AT CREWS REC RM & OFFICERS REC RM FRS 30½ TO 33½, P & S.						
		7. 1ST ASST ENG (MAINT) RM (C-15) FR 58-60(S) REARRANGED.						
		8. 1ST ASST ENG SR (C-17) FR 62-64(S) REARRANGED.						
		9. CHIEF ENG SR (C-19) FR 67-69(S) REARRANGED.						
		10. 3RD ASST ENGR #1 (C-11) FR 53-55(S) REARRANGED.						
		11. 2ND ASST ENGR (C-13) FR 55-57(S) REARRANGED.						
		12. REVISE BHDS FR 34-35 & 42-43 P & S (AT VENT SPACES) FROM FT "AO" TO FT "B" CLASS.						
		13. LONG BHD AT CO_2 RM FR 90½-96, 37'-11" OFF ℄ (P) REVISED FROM TYPE "A-60" TO "AO" BHDS. SOURCE: ITEMS 4 & 5 TO SUIT C.G. COMMENTS & TEL CON. LT CMDR DEVRIES/Y. DIGRAVIO, G.D ON APRIL 21, 1971 - 9:30 AM. ITEM #6: J.J. HENRY REQUEST ITEMS #7, 8, 9, 10 & 11 TO SUIT RELOCATION OF A-C UNITS & JAMESTOWN PLAN #30574-30×3. ITEM 12 - DESIGN CORRECTION. ITEM 13 - TO SUIT USCG LTR 5940/GD 18-20 OF 25 MAY 71.						
	J	1. PL. REV H APPD LOCALLY BY J.J.H. Y/D REP. I.R.M. S07-0357 DATED 6-7-71.	VDG 6/15/71	F.Roy			APPD 4C	D.ON A
13		2. SIZE OF M.H. C-23-1, C-23-2 INCR. FROM 15"×23" TO 23"×23".						
17,18		3. LINING IN HOSPITAL BET FRS 36-37(S) REVISED. SOURCE: ITEM #2 INCORPS ABAS-0805. ITEM #3 TO SUIT JTM GEN ARR PL 30574-30×2.						

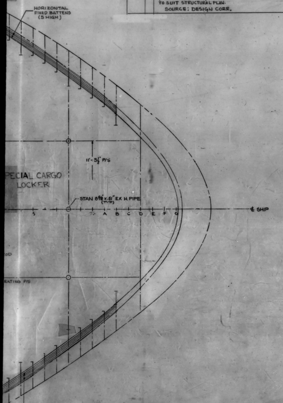
CONTD IN PANEL 9


50
49
48
47
46
45
44
H
G
F
E
D
C
B
A
ESCAPE PASSAGE
C-127-2
C-128-2
17 3/16" P/S
128
BARGE ELEVATOR
MACH RM PORT
C-109-2
DN
ELEVATOR
STERN GATES IN STOWED POSITION
MASTER
PIPE RAIL (3 COURSE) 42" HIGH
48"
130
125
120
115
110
109
108
ELEVATOR
30"×72" ARCH 6½" SILL
30"
41'-0" OFF ℄ SHIP P/S
PLATF ON BARGE ELEV
36"
VL
W T
AO (OVER)
120
119
PLAN 46-B
BOTTOM OF TRUNK P/S
7'-8" BELOW UPPER DK
41'-0" OFF ℄ SHIP P/S
PLATF ON BARGE ELEV.
C-128-1
18" DIA RAWTQA SCUTTLE 4" COAM OPER ABV & BEL P/S
GRAB ROD P/S
129
16" P/S
36"
71" P/S
VL P/S
C-127-1
WTD 30"×63" 15½" SILL P/S
SCUTTLE (OVER) P/S
ESCAPE PASSAGE
122
17 3/16" P/S
17 3/16" P/S
8" P/S
15" P/S
8" P/S
53" P/S
PLAN 46-B P/S
26"×66" ARCH P/S 9" SILL
MACH RM STBD
FR110
7 11/16" P/S
53" P/S
3"(KN) P/S
FR 108
44" P/S
C-109-1
FTD 30"×69" 9½" SILL P/S W/FIXED LIGHT
FT
DN
28" I/L
HWAY P/S 6'-6"×36"

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-516-1-5 GD NO. 30211-03x5 FRAME 1 2 3 4
5 6 7 ⑧

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S16-1-6 GD NO.30211-03x6 FRAME ①2 3 4

REVISIONS			Qdiv		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
M	9,34	1. STORM RAILS DELETED FROM AFT SIDE OF TRANS BHD 19, STORM RAILS & L.R. DELETED ON INBD SIDE OF BOOBY HATCH BET FRS 89-90 P/S., L.R. RELOC TO OUTBD SIDE OF BOOBY HATCH ABT FR 90 P/S & STORM RAILS REVISED.	3/12/72					
	18	2. LIFE PRESERVER BOX AFT FR 44 REVISED P/S. SOURCE: ITEM #1 TO SUIT PL 30532-05-4. ITEM #2 TO SUIT PL 30537-05-1.						
N	23H 24A	1. PILOTS LADDER ADDED 27" FWD FR 62 (S) & FR 59½ (P) SOURCE: ITEM #1 DESIGN CORR.	[illegible]					
P	10,11	1. REVISED INDICATION OF VENT TRK 41'-7" OFF ℄ (P) BET FR 25 & 27 & ADDED INDICATION OF VENT TRK 40'-8" OFF ℄ (S) BET FR 23 & 24 TO SUIT STRUCTURAL PLAN. SOURCE: DESIGN CORR.	2-5-73 FF					


HORIZONTAL FIXED BATTENS (5 HIGH)
11'-5½" P/S
PECIAL CARGO LOCKER
STAN 8⅝" x .51" EX H. PIPE (TYP)
5
A
B
C
D
E
F
G
℄ SHIP
OD
RATING P/S
HORIZONTAL FIXED BATTENS (5 HIGH)

UPPER DECK

SHEER

HEIGHT AT ℄ FR G, 70'-11 9/16"
HEIGHT AT ℄ FR 127, 79'-7 1/16"
} DECK SLOPES 1½" IN 12'-6"

CAMBER

NO CAMBER FROM ℄ TO 37'-8" OFF ℄
9" CAMBER FROM 37'-8" OFF ℄ TO SHELL

ABBREVIATIONS

A-O	FIRE RETARDENT BHD STL
ABL	ABOVE BASE LINE
ABT	ABOUT
ABV	ABOVE
AO	ACCESS OPENING
ACCOM	ACCOMMODATION
BEL	BELOW
BHD	BULKHEAD
℔	BASE LINE
BPMH	BOLTED PLATE MANHOLE
BOSN	BOATSWAIN
℄	CENTER LINE
DN	DOWN
DIA	DIAMETER
DK	DECK
D	DOOR
EXH	EXTRA HARD
FP	FORWARD PERPENDICULAR
FR	FRAME
FOC'SLE	FORE CASTLE
H	HATCH
HWAY	HATCHWAY
IL	INCLINED LADDER
C&H	COAT & HAT HOOK
LAV	LAVATORY
LR	LADDER RUNG
KNU	KNUCKLE
MH	MANHOLE
MJD	METAL JOINER DOOR
NT	NON TIGHT
NTD	NON TIGHT DOOR
OPNG	OPENING
OT	OIL TIGHT
P	PORT
PLATF	PLATFORM
RA	RAISED
S	STARBOARD
STAN	STANCHION
STA	STATION
TYP	TYPICAL
V	VENT
VL	VERTICAL LADDER
WEA	WEATHER
WT	WATER TIGHT
T	TIGHT
TH	TOILET PAPER HOLDER
UR	URINAL
WC	WATER CLOSET

GENERAL NOTES

1. ~~EXACT LOCATIONS FOR CUTTING ACCESS OPENINGS SHALL BE TAKEN FROM STRUCTURAL PLANS.~~
2. SIZES OF ALL HATCHES, MANHOLES DOORS, ETC. REPRESENT CLEAR OPENINGS.
3. CLEAR HEADROOM IN ACCOMMODATIONS, WORKING, NAVIGATION SPACES, PASSAGEWAYS, TOILET AND SHOWER SPACES SHALL NOT BE LESS THAN 7'-6" CLEAR HEADROOM. UNDER LOCAL POINTS SUCH AS DUCTS, PIPING, LIGHTS, GIRDERS, ETC., SHALL NOT BE LESS THAN 7'-3" IN THE ABOVE SPACES.
4. SILL AND COAMING HEIGHTS ARE FROM TOP OF STEEL DECK TO CLEAR OPENING.

RESERVATIONS

1. ~~WT RECESS FOR DOLLY & BOSN LKR P/S PENDING REDESIGN OF FORMER BARGE WINCH MACHY ROOM.~~
2. ~~LOCATION OF ACCOMMODATION LADDER & LIFEBOAT P/S - PENDING DESIGN DEVELOPMENT FOR SUBJECT ITEMS.~~
3. ~~AREA IN WAY OF STERN GATES INCLUDING RECESSES FOR SHEAVES, MAKE UP RAMP, & OTHER BARGE HDLG EQUIPMENT - PENDING DEVELOPMENT OF BARGE HANDLING SYSTEM.~~
4. ~~DOOR 1-39-1 & 1-39-2 IN SLOPING BHD PENDING STRUCTURAL DEVELOPMENT OF DECK HOUSE.~~
5. ~~STERN CONFIGURATION AFT FR 125 P/S - PENDING DEVELOPMENT OF ELEVATOR GUIDANCE SYSTEM & BARGE FENDERING.~~
6. ~~WINDOWS IN OPER FLAT AFT PENDING DEV OF CONSOLE & STRUCTURE.~~
7. ~~ARRGT OF BOSN LKR PENDING DEVELOPMENT OF DETAIL ARRGT. PLAN~~
8. ~~INDICATION OF ELEVATOR GUIDANCE SYSTEM & BARGE FENDERING PENDING DESIGN DEVELOPMENT.~~
9. ~~OPENINGS FOR ELEVATOR PLATFORM SECURING TURNBUCKLES - PENDING STRUCTURAL DEVELOPMENT OF CANTILEVER.~~
10. ~~LOC PENDING DEVELOPMENT OF ENGINEERS PLATF HOIST.~~
11. ~~SMOKESTACK & VENT AREA PENDING STRUCTURAL & VENT DEVELOPMENT.~~
12. ~~FIRE STA #46 PENDING ENGINEERS DEVELOPMENT.~~
K 13. ~~ELEVATOR SECURING AT SEA ARRANGEMENT PENDING STRUCTURAL DESIGN DEVELOPMENT~~

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	B	ITEMS 4, 9, 10, 12, 14, 17, 18, 21, 22 & 24 DES DEV. ITEM 19 DES DEV. ITEM 20 TO SUIT DES CONFERENCE REVIEW LTR ITEM 8 FILE: 320A/AGS/SS9-11/TAR/ME-2995 JUNE 24, 1969. ITEM 23 TO SUIT J.J. HENRY LTR OF OCT 2, 1969 FILE: 5589/S16/AHS-325-69. ITEM 25 TO SUIT ABS APPROVAL LTR OF JULY 18, 1969						
		FOR CONTINUATION OF REVISIONS SEE PANEL 48						

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
5 G	A	9 GENERAL NOTE #1 DELETED.						
1A		10. MARITIME ADMINISTRATION DWG NO. ADDED.						
31A		11. HATCH U-81-1: HINGES INDICATED & NOTE "TOP PARALLEL TO SHEER & LEVEL TRANS" ADDED.						
39A, 39H		12. HATCHES U-101 & U-101-2 NOTE "TOP PARALLEL TO SHEER & LEVEL TRANS" ADDED.						
6, 9, 16, 31, 40, 41		13. ABBREVIATION LIST, BOSUN CHGD TO BOSN & COMPT TITLES REVISED TO SUIT.						
16		14. WT DOORS U-39-1 & U-39-2 REVISED TO INDICATE DOOR RECESS & RELOCATED 1" OUTBD.						
39H		15. HATCH U-101-2 RELOCATED FROM 36" AFT OF FR 101 TO 42" FWD FR 102 & SIZE CHGD FROM 9'-0" X 6'-0" TO 60" X 48".						
41		16. HATCHWAY 44" FWD FR 108 P/S RELOCATED FROM 50'-0" TO 48'-6" OFF ℄ & BHD FWD OF HATCHWAY MODIFIED TO SUIT.						
40		17. INDICATION OF FLAT BAR REINF ADDED AROUND DOORS U-104-1, U-104-2, U-104-4 & U-104-5.						
39		18 INCL LAD UP ABT FR 103 RELOC INBD TO CLEAR SHELL STIFF FR 103 P/S						
		19. RES #5 DELETED & RES #8 ADDED TO SUIT CANCELLATION GEN DYN CC #8 (ELIM OF HOOK IN STERN CANTILEVER) SOURCE: ITEM 1 THRU 10 TO SUIT J.J. HENRY APPROVAL LTR OF MAY 5, 1969 FILE 5589/S16-1/AHS-170-69. ITEM 11, 12 & 13 DESIGN CORR. ITEM 14, 16, 17, 18 & 19 DESIGN DEV. ITEM 15 (CC #7) IN ACCORDANCE WITH TWX-NEMEC TO GEN DYN, MARAD, J.J. HENRY JUNE 6, 1969 (CONTR CHG MA 3). REV. O APPROVED BY US.CG. LTR OF 5/26/69, BY US.P.H. LTR OF 6/3/69 & BY J.J. HENRY LTR FILE 5589/S16-1/AHS-170-69 OF 5/5/69 SUBJECT TO COMMENTS AS NOTED ABOVE.						
	B	1. PLAN REV "A" APPROVED BY J.J. HENRY LTR OF AUG. 21, 1969 FILE: 5589/S16/AHS-281-69 SUBJECT TO COMMENTS NOTED BELOW.	[illegible]					
		2. PLAN REV "A" APPROVED BY U.S.C.G. LTR FILE 5940/GEN DYN 18-20 DATED AUG 26, 1969.						
		3. PLAN REV "A" APPROVED BY U.S.P.H.S LTR DATED SEPT 5, 1969						
5F		4. ADDED ABBREVIATIONS TO LIST.						
9		5. INDICATED ACCESS THRU BARGE BUMPERS ABT FR 21 P/S.						
9B & 9G		6. INDICATED FIXED LIGHTS TO DOOR U-19-1 & U-19-2						
VARIOUS		7. INDICATED WIDTH TO ALL IL. THROUGHOUT PLAN						
VARIOUS		8. INDICATED STORM RAILS AFT OF BHD 19, AROUND BOOBY HATCHES, BOSN LOCKERS, IN PASSAGEWAYS IN DK HOUSES FR 39-44, 104-109 & OUTBD OF SECURING RATCHET ACCESS SPACE FR 109-130 ALL P/S.						
16A & 16H		9. REV WTD U-39-1 & U-39-2 FROM 24" x 63" TO 23" x 63" & RELOC DOORS FROM 20½" TO 18½" OUTBD OF LONG BHD, RECESS REV TO SUIT P/S & RES #4 RELEASED						
16A-16H		10 FIRE STATIONS RELOC FROM FWD SIDE BOSN LKR FR 39 TO PASSAGE SIDE ON INBD LONG BHD 12" FWD FR 40 P/S.						
VARIOUS		11. LR ADDED P/S TO AFT SIDE DK HOUSE FR 44, INBD SIDE OF BOOBY HATCH ABT FR 70½, INBD SIDE OF BOSN LKR ABT 21" FWD FR 80, INBD SIDE OF BOOBY HATCH ABT 36" AFT FR 89, & VL ADDED TO INBD SIDE OF SMOKESTACKS ABT FR 74 ALL P/S						
17A & 17H		12. HWAY RELOC FROM 44½" TO 47" FWD FR 42 P/S.						
27, 31, 35, 40 & 41		13. ADDED FIXED LIGHT TO DOOR U-70-1, U-70-2, U-79-1, U-79-2, U-90-1, U-90-2, U-104-1, U-104-2, U-109-1 & U-109-2.						
39H		14. RAWTH U-101-2 RELOC FROM 45'-5" OFF ℄ P & 42" FWD FR 102 TO 36" AFT FR 102 & 45'-3" OFF ℄ P & NUMBER CHANGED TO U-102-2						
40A		15. LONGSHOREMANS TOILET PLUMBING FIXTURES ARR INDICATED						
28A & 28H		16. SMOKESTACK LABELED TO INDICATED FUNCTION.						
6B		17. ADDED RES #9 & 10						
41 TO 46		18. REVISED FR SPACING AFT OF FR 109 TO SUIT NEW CANTILEVER CONFIGURATION.						
34A & 34H		19. FIRE STA IN BOOBY HATCH ABT FR 90 STBD RECESSED TO SUIT PIPING.						
41C & 41F		20. BARGE ℄ DIM CHANGED FROM 19'-4" TO 19'-5" P/S						
40A & 40H		21. RELOC NT BHD FROM 43½" AFT FR 105 TO FR 106 P & DOOR U-105-2 RELOC FROM 26" FWD FR 106 TO 26" AFT FR 106 & NUMBER CHANGED TO U-106-2 & ARCHES ADDED P/S IN PASSAGEWAYS FR 106 TO SUIT STRUCT DEV.						
VARIOUS		22. WATER WAY BAR ADDED BETWEEN FR 27-97 P/S.						
39A & 39H		23. IL BETWEEN FR 101 & 104 P/S REV.						
VARIOUS		24. FIRE STATIONS NUMBERED & DOORS REVISED FROM SINGLE TO DOUBLE & FIRE STATIONS 45, 46 & 47 ADDED AFT FR 107.						
17B, H		25. DOORS U-42-1 & U-42-2 CHGD FROM 30" WEAT. MJD TO 30" X 63" WTD WITH 24" SILLS. SOURCE: ITEMS 5, 7, 8, 11, 15 & 16 TO SUIT J.J. HENRY LTR OF AUG 21, 1969 FILE: 5589/S16/AHS-281-69.						

CONT ON PANEL 48

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
41A, 18, 9C, 9F, 30A, 30H, 40A, 40H & 41H	A	1. ARRGT OF CLERKS OFFICE ADDED & RES #7 ADDED FOR BOSN LKR ARRGT.	RS NB [illegible]					
8B, 8C, 8D, 9B, 9F		2. RES #1 MODIFIED TO COVER BHDS AT FR 17 P/S TITLE OF BARGE WINCH MACHY CHGD TO BOSN LKR & OUT LINE OF WINCHES TO SUIT J.J. HENRY ANSWER TO RFI #63.						
18A, 18H, 36A, 36H		3. LIFE BOATS INTERCHANGED & NOS FOR LIFE BOATS & INFLATABLE RAFTS.						
40A		4 LONGSHOREMAN'S TOILET LABELING MODIFIED.						
6B, 49B		5. RES #6 ADDED FOR WINDOWS IN OPER STA AFT.						
16A, 16H		6. DUMBWAITER & INBD BHD OF STAIRWELL RELOCATED TO SUIT REARRGT ON DKS BELOW.						
		7. FIRST DIGIT OF DOOR & HATCH NOS CHGD FROM "1" TO "U"						
		8. HANDRAILS IN WAY OF LADDERS & STAIRWAYS INDICATED & WIDTH OF LADDERS & STAIRWAYS ADDED. CONT ON NEXT PANEL						

REVISIONS	O	A	B	C	D	E	F	G	H	J	P	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
		APPR	APPR	PREL	PREL												
TO			11/5/9	5/14/0	10/2/0	8/23/0	2/9/1	6/4/1	7/28/1	9/13/1	2/5/73	30212	A	7-25-9	800		
LYKES					1	1	1	1	1	1	1	not issued to trades			820		
M.A.(WASH)					1	1	1	1	1	1		30212	B	11-20-9	826	[illegible]	12
M.A.(YARD)		1	1	1	1	1	1	1	1	1		30212 reissue to trades	B	12-10-9	829		
J.J.HENRY(YARD)		1	1	1	1	1	1	1	1	1	1	30212	C	5-27-0	830	1	7
J.J.HENRY(HOME)					1	1	1	2	2	2	1		D	10-7-0	841		7
ABS YD		1	1	1	1	1	1	1	1	1			E	[illegible]	842		
USCG/D		1	1	1	1	1	1	1	1	1		30212	F	2-11-1	843		
USPHS					1	1		1	1	1			G	6-14-1	844		5
													H	7-29-1	899		
													J	9-14-1	LIBRARY		3
													K	1-8-2			
													L	3-1-2			
													M	3-29-2			
871		12	14	14	6	14	6	12	12	13	2			Layout	812		1
872		2	6	4	2	2	2	—	—	—		W. PRAY			235	1	1
873			6														
874		1	1	1													
875														Direct	814		
876		3	3	3	1	1	1	—	—	—		R. CROSBY					
TPS866		1	1	1	1	1											
899L		1	1	1													
865			1														
LIA [illegible]					2	2	1	1	1	1							
TOTAL NRO'S FS			37	25	21	28	17	1									
TOTAL NRO'S HS								21	22	23	5						
TOTAL RO															TOTAL		3[illegible]

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
7	C&A - OUTBOARD PROFILE	30211-03x9	241-S16-1-9
6	C&A - INBOARD PROFILE	30211-03x8	241-S16-1-8
5	C&A & GEN ARR - FOC'SLE, POOP DK & ABOVE	30211-03x7	241-S16-1-7
4	C&A & GEN ARR - CABIN DK	30211-03x5	241-S16-1-5
3	C&A & GEN ARR - MAIN DK	30211-03x4	241-S16-1-4
2	C&A - LOWER DK & TWEEN DK	30211-03x3	241-S16-1-3
1	C&A - INNERBOTTOM & TOP OF INNERBOTTOM	30211-03x1	241-S16-1-1

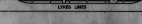
REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
C	39		18, 19 & 20
C	30		18, 19 & 20
C	29		18, 19 & 20
C	8.1		18, 19 & 20
A	7	3	18, 19 & 20

MICROFILMED
P 5-10-73

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO.
30211-03x6

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN AA
DSGNR [illegible]
SUPV [illegible]
ENGR

COMPT & ACCESS & GEN ARR
UPPER DECK

APPROVED DATE 4/1/9
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-1-6	P

SCALE ¼" = 1'-0"
SHEET 1 OF 1

APPROVAL LTR DATED
ABS 18 JULY 69
USCG 26 MAY 1969
USPHS 6-3-69

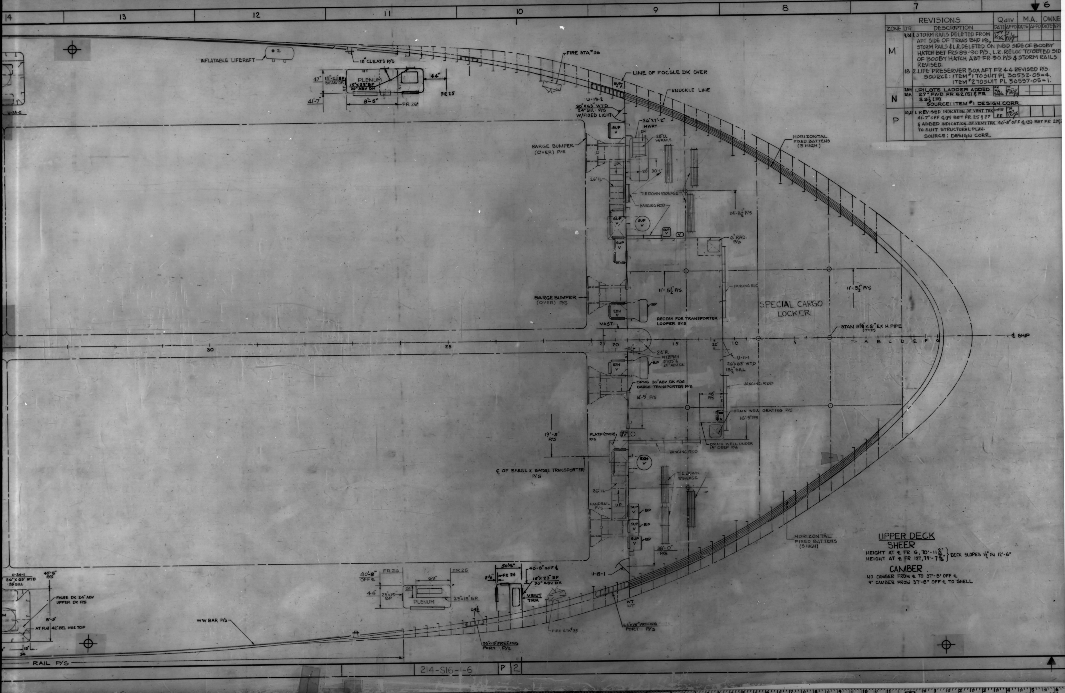
OWNER APPROVAL LTR DATED 5-5-69

KEY PLAN

AREA = 57,[illegible] FT

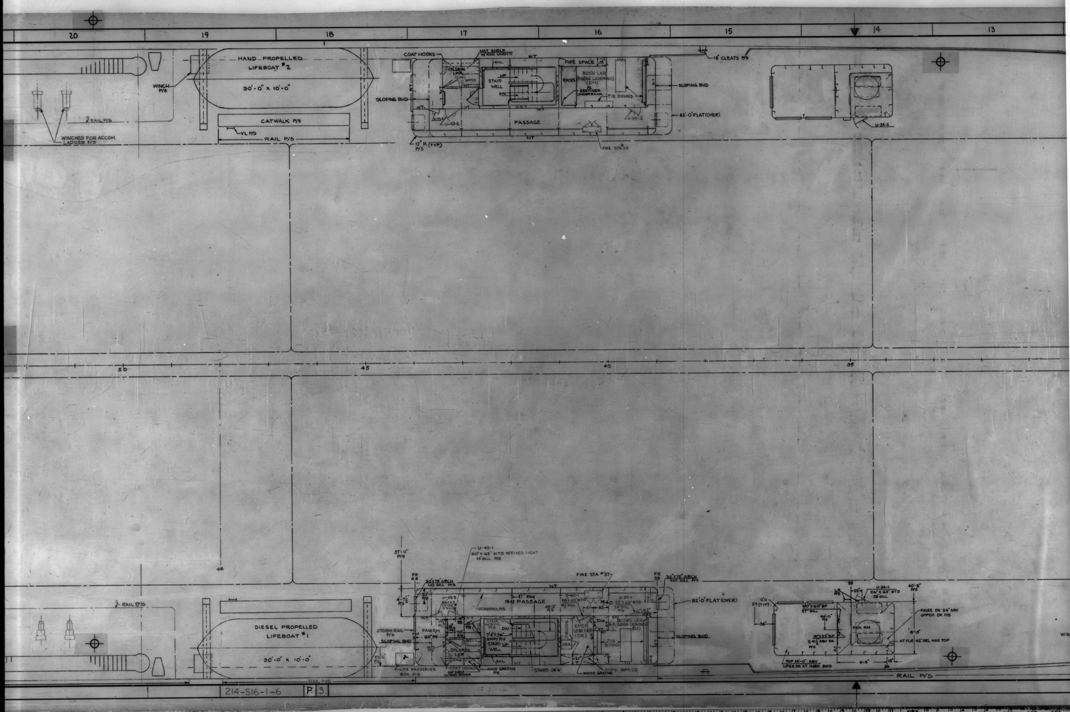
DWG. NO. 30211-03x6

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-516-1-6 GD NO. 30211-03×6 FRAME 1 ② 3 4

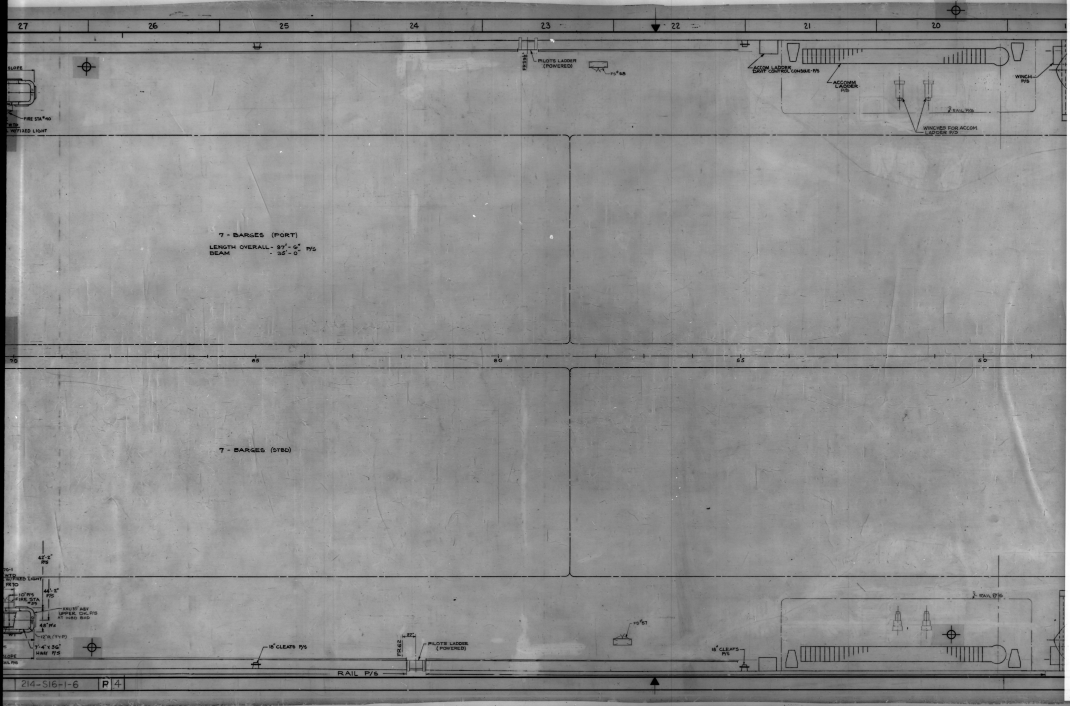

14
13
12
11
10
9
8
7
6
INFLATABLE LIFERAFT
# 2
18" CLEATS P/S
FIRE STA # 36
PLENUM
15"×23" BP 30" ABV DK
47"
44"
41'-7"
8'-5"
FR 26
FR 25
LINE OF FOC'SLE DK OVER
KNUCKLE LINE
U-19-2
30"×63" WTD
24" SILL P/S
W/FIXED LIGHT
36"×7'-2" HWAY
BARGE BUMPER (OVER) P/S
SUP V
26' IL
UP
TIE DOWN STOWAGE
HANGING ROD
HORIZONTAL FIXED BATTENS (5 HIGH)
24'-8¼" P/S
6" RAD. P/S
11'-5½" P/S
HANGING ROD
SPECIAL CARGO LOCKER
EXH V
BP
RECESS FOR TRANSPORTER LOOPER SYS
MAST
STAN 8⅝" × 51" EX H. PIPE
℄ SHIP
30
25
20
15
10
5
A B C D E F G
24" R
U-11-1
26"×63" WTD
15½" SILL
OPNG 30" ABV DK FOR BARGE TRANSPORTER P/S
14'-9" P/S
48"
DRAIN WELL GRATING P/S
16'-9" P/S
DRAIN WELL UNDER 18" DEEP P/S
19'-5" P/S
PLATF (OVER) P/S
℄ OF BARGE & BARGE TRANSPORTER P/S
HANDRAIL P/S
TIE DOWN STOWAGE
38'-0" P/S
U-19-1
40'-8" OFF ℄
FR 24
VENT TRK
23"×15" BP
63"
U-34-1
26"×63" WTD
26 SILL
40'-8" P/S
FALSE DK 24" ABV UPPER DK P/S
8'-5"
AT FLAT 42" BEL HSE TOP
WW BAR P/S
36"×15" FREEING PORT P/S
FIRE STA # 35
WT NT
RAIL P/S
UPPER DECK
SHEER
HEIGHT AT ℄ FR G, 70'-11 3/16"
HEIGHT AT ℄ FR 127, 79'-7 1/16"
DECK SLOPES 1¼" IN 12'-6"
CAMBER
NO CAMBER FROM ℄ TO 37'-8" OFF ℄
9" CAMBER FROM 37'-8" OFF ℄ TO SHELL
214-S16-1-6
P 2

REVISIONS			Qdiv		M.A.		OWNE	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APP
M	9,34 18	1. STORM RAILS DELETED FROM AFT SIDE OF TRANS BHD 19, STORM RAILS & L.R. DELETED ON INBD SIDE OF BOOBY HATCH BET FRS 89-90 P/S., L.R. RELOC TO OUTBD SID OF BOOBY HATCH ABT FR 90 P/S & STORM RAILS REVISED. 2. LIFE PRESERVER BOX AFT FR 44 REVISED P/S. SOURCE: ITEM #1 TO SUIT PL 30532-05×4. ITEM #2 TO SUIT PL 30537-05×1.	[illegible]	[illegible]				
N	23H 24A	1. PILOTS LADDER ADDED 27" FWD FR 62 (S) & FR 59½ (P) SOURCE: ITEM #1 DESIGN CORR.	PK MG [illegible]	[illegible]				
P	10,11	1. REVISED INDICATION OF VENT TRK 41'-7" OFF ℄ (P) BET FR 25 & 27 & ADDED INDICATION OF VENT TRK 40'-8" OFF ℄ (S) BET FR 23 TO SUIT STRUCTURAL PLAN. SOURCE: DESIGN CORR.	2-5-73 FF	[illegible]				

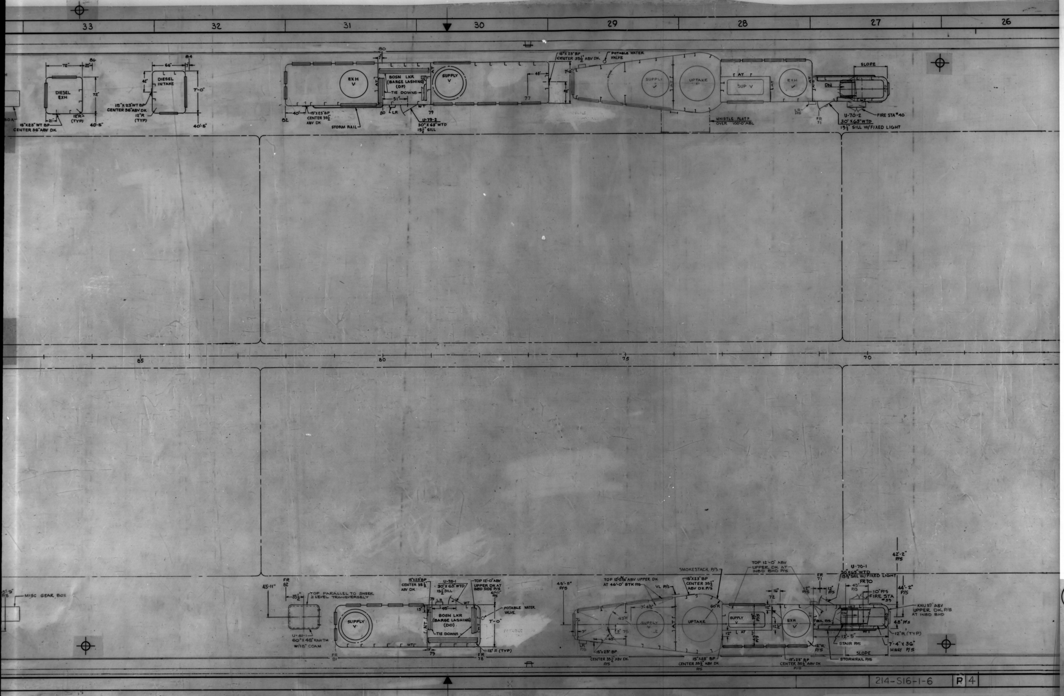
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-516-1-6 GD NO.30211-03x6 FRAME 1 2 ③ 4

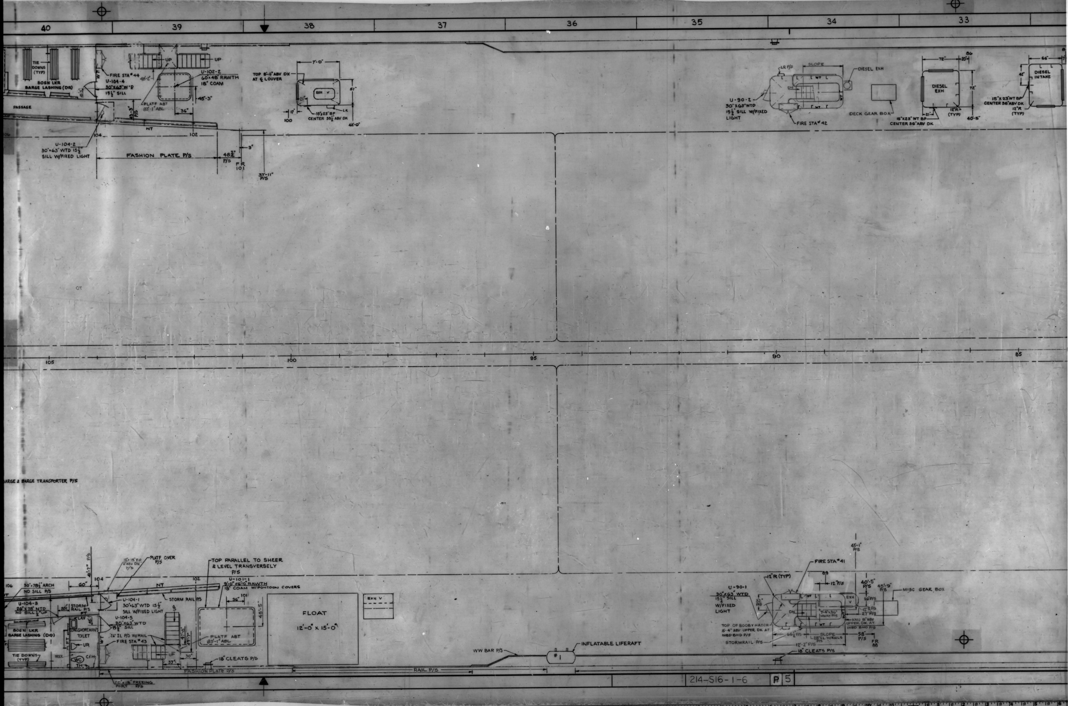

20
19
18
17
16
15
14
13
HAND PROPELLED LIFEBOAT #2
30'-0" x 10'-0"
WINCH P/S
CATWALK P/S
VL P/S
RAIL P/S
℄ RAIL P/S
WINCHES FOR ACCOM LADDER P/S
COAT HOOKS
HAT SHELF W/ROD UNDER
OILSKIN LKR (DN)
STAIR-WELL
UP
DN
PIPE SPACE
RACKS
BOS'N LKR (BARGE LASHINGS) (DM)
AL GRATINGS UNDERRACK
TIE DOWNS
SLOPING BHD
PASSAGE
WT
NT
U-43-2
U-39-2
82'-0" FLAT (OVER)
FIRE STA #38
18" CLEATS P/S
U-34-2
12" R (TYP) P/S
50
45
40
35
48
37'-11" P/S
FR 44
30"x78" ARCH NO SILL P/S
U-43-1
30"x63" WTD W/FIXED LIGHT 15" SILL P/S
FIRE STA #37
FR 39
30"x78" ARCH NO SILL P/S
82'-0" FLAT (OVER)
FR 42 PASSAGE
4'-7½" P/S
STORM RAIL P/S
FAN RM
OILSKIN LKR
STAIR-WELL
EMER GEAR LKR (DK)
BOS'N LKR (BARGE LASHINGS) (DJ)
TIE DOWNS
PIPE SPACE
WOOD GRATING
STAIRS-28"W
LIFE PRESERVER BOX P/S
COAT HOOKS
HAT SHELF W/ROD UNDER
SLOPING BHD
DIESEL PROPELLED LIFEBOAT #1
30'-0" x 10'-0"
℄ RAIL P/S
12"R 37 (TYP)
36"
60"x60" BP 27" SILL
U-34-1
26"x63" WTD 28" SILL
40'-8" P/S
FALSE DK 24" ABV UPPER DK P/S
FAN RM
AT FLAT 42" BEL HSE TOP
8'-9"
6'-9"
15"
34
35
TOP 14'-0" ABV UPPER DK AT INBD BHD
RAIL P/S
214-516-1-6
P.3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-516-1-6 GD NO.30211-03x6 FRAME 1 2 3 ④


27
26
25
24
23
22
21
20
SLOPE
FIRE STA #40
WTD
W/FIXED LIGHT
PILOTS LADDER (POWERED)
FR 59½
FS #58
ACCOM LADDER DAVIT CONTROL CONSOLE - P/S
ACCOMM LADDER P/S
WINCH P/S
℄ RAIL P/S
WINCHES FOR ACCOM LADDER P/S
7 - BARGES (PORT)
LENGTH OVERALL - 97'-6" P/S
BEAM - 35'-0"
70
65
60
55
50
7 - BARGES (STBD)
42'-2" P/S
70-1
WTD
W/FIXED LIGHT
FR 70
10" P/S
FIRE STA #39
44'-2" P/S
KNU 39" ABV UPPER DK P/S AT INBD BHD
48" P/S
12"R (TYP)
7'-4" x 36" HWAY P/S
SLOPE
RAIL P/S
18" CLEATS P/S
FR 62
27"
PILOTS LADDER (POWERED)
FS #57
18" CLEATS P/S
℄ RAIL P/S
RAIL P/S
214-516-1-6
P 4
P

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S16-1-6 GD NO.30211-03x6 FRAME 1 2 3 4 ⑤ 6 7 8


33
32
31
30
29
28
27
26
DIESEL EXH
DIESEL INTAKE
15"X23" WT BP CENTER 36" ABV DK
15"X23" WT BP CENTER 36" ABV DK
12"R (TYP)
7'-0"
40'-5"
EXH V
BOSN LKR (BARGE LASHING) (DP)
TIE DOWNS
SUPPLY V
STORM RAIL
15"X23" BP CENTER 35½" ABV DK
U-79-2 30"X 65" WTD 15½" SILL
15"X 23" BP CENTER 35½" ABV DK
POTABLE WATER VALVE
SUPPLY V
UPTAKE
SUP V
EXH V
WHISTLE PLATF OVER 100'-0" ABL
SLOPE
DN
FIRE STA #40
U-70-2 30"X 63" WTD 15½" SILL W/FIXED LIGHT
85
80
75
70
MISC GEAR BOX
43'-11"
FR 82
TOP PARALLEL TO SHEER & LEVEL TRANSVERSELY
U-81-1 60"X 48" RAWTH W/18" COAM
SUPPLY V
15"X23" BP CENTER 35½" ABV DK
U-76-1 30"X 63" WTD 15½" SILL
TOP 12'-0" ABV UPPER DK AT INBD SIDE P/S
BOSN LKR (BARGE LASHING) (DO)
TIE DOWNS
POTABLE WATER VALVE
7'-0"
12"R (TYP)
FR 81
FR 76
45'-5" P/S
TOP 12'-6 3/16" ABV UPPER DK AT 46'-0" BTK P/S
VL P/S
SMOKESTACK P/S
15"X23" BP CENTER 35½" ABV DK P/S
SUPPLY V
UPTAKE
15"X25" BP CENTER 35½" ABV DK P/S
TOP 12'-0" ABV UPPER DK AT INBD BHD P/S
SUPPLY V
EXH V
U-70-1 30"X63" WTD 15½" SILL W/FIXED LIGHT
FR 70
FIRE STA #39
42'-2" P/S
44'-2" P/S
KNU 35" ABV UPPER DK P/S AT INBD BHD
48" P/S
12"R (TYP)
STAIR P/S
7'-4" X 36" HWAY P/S
SLOPE
STORMRAIL P/S
214-S16-1-6
P 4

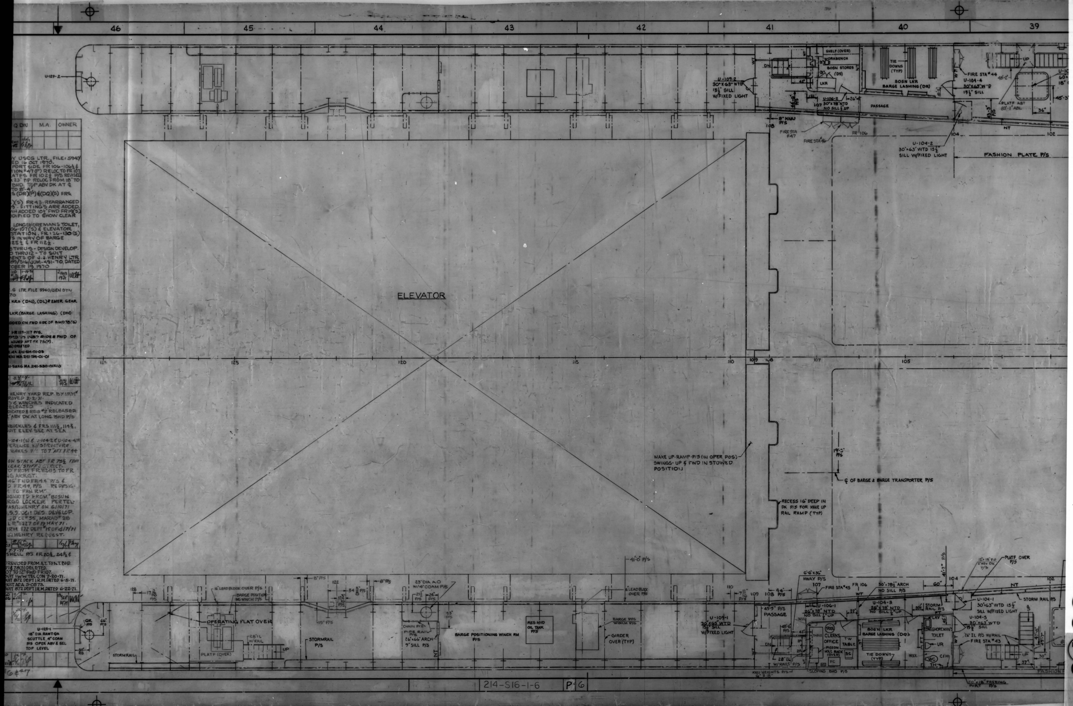

40
39
38
37
36
35
34
33
TIE DOWNS (TYP)
BOSN LKR BARGE LASHING (DR)
PASSAGE
FIRE STA # 44
U-104-4 30"X63" W'D 15½" SILL
UP
UP
48'-2"
U-102-2 60"x48" RAWTH 18" COAM
45'-3"
PLATF ABT 83'-1" ABL
36"
43'-3" P/S
NT
104
102
U-104-2 30"x63" WTD 15½" SILL W/FIXED LIGHT
FASHION PLATE P/S
48¾" P/S
FR 101
3"
37'-11" P/S
7'-0"
TOP 8'-4" ABV DK AT ℄ LOUVER
EXH V
51"
21"
17"
100
15"x23" BP CENTER 35½" ABV DK
LR
42'-0"
LR P/S
SLOPE
DIESEL EXH
U-90-2 30"X63" WTD 15½" SILL W/FIXED LIGHT
DN
WT
FIRE STA # 42
DECK GEAR BOX
72"
20"
86
DIESEL EXH
72"
21"
15"X23" WT BP CENTER 36" ABV DK
12"R (TYP)
40'-5"
66"
7"
42"
DIESEL INTAKE
15"X23" WT BP CENTER 36" ABV DK
12"R (TYP)
105
100
95
90
85
BARGE & BARGE TRANSPORTER P/S
106
30"x78½" ARCH NO SILL P/S
60"
41'-7" P/S
104
12"x15" FO 2' ABV DK P/S
PLATF OVER P/S
NT
102
TOP PARALLEL TO SHEER & LEVEL TRANSVERSELY P/S
U-101-1 9'-0"x6'-0" RAWTH 18" COAM W/PONTOON COVERS
U-104-3 26"X78" NTD NO SILL ½" UP
20½"
STORM RAIL P/S
FT
LAV
45"
U-104-1 30"x63" WTD 15½" SILL W/FIXED LIGHT
STORM RAIL P/S
U-104-5 30"x63" WTD 15½" SILL
BOS'N LKR BARGE LASHING (DQ)
LONGSHOREMAN'S TOILET
UR
WC
C/H
TH
INSUL
TIE DOWNS (TYP)
WT
26" IL P/S W/RAIL
FIRE STA # 43
UP
UP
47'-8"
49'-7"
30"
37"
36"
101
45'-5"
PLATF ABT 83'-1" ABL
FLOAT 12'-0" x 15'-0"
EXH V
18" CLEATS P/S
FASHION PLATE P/S
60"x18" FREEING PORT P/S
WW BAR P/S
RAIL P/S
#1
INFLATABLE LIFERAFT
43'-1" P/S
FIRE STA # 41
12"R (TYP)
89
12" P/S
U-90-1 30"x63" WTD 15½" SILL W/FIXED LIGHT
32" P/S
DN
7'-4"x36" HWAY P/S
EXH V
40'-5" P/S
45'-9" P/S
26" P/S
12"R P/S
27" P/S
MISC GEAR BOX
KNU 8" ABV UPPER DK AT INBD BHD P/S
TOP OF BOOBY HATCH 8'-4" ABV UPPER DK AT INBD BHD P/S
66½" P/S
SLOPE
28" IL W/RAILS P/S
58" P/S
FR 88
STORMRAIL P/S
12'-2" P/S
18" CLEATS P/S
214-S16-1-6
P 5

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-516-1-6 GD NO.30211-03x6 FRAME 1 2 3 4 ⑥

5 7 8

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-516-1-6 GD NO.30211-03x6 FRAME 1 2 3 4 5 6 ⑦ 8


46
45
44
43
42
41
40
39
38
ELEVATOR
Q DN
M.A.
OWNER
U-129-2
U-129-1
16" DIA RAWTGA SCUTTLE 4" COAM P/S OPER ABV & BEL TOP LEVEL
U-109-2 30"X63" WTD 15½" SILL W/FIXED LIGHT
U-109-1 30"X63" WTD 15½" SILL W/FIXED LIGHT
SHELF (OVER)
WORKBENCH
BOSN STORES (DS)
LKR
TIE DOWNS (TYP)
BOSN LKR BARGE LASHING (DR)
FIRE STA #44
U-104-4 30"X63" W"D 15½" SILL
U-106-2 30"X78" NTD NO SILL ½" UP
PASSAGE
FIRE STA #47
FIRE STA #46
FR 106
PLATF ABT 83'-1" ABL
U-104-2 30"X63" WTD 15½" SILL W/FIXED LIGHT
FASHION PLATE P/S
MAKE UP-RAMP-P/S (IN OPER POS) SWINGS-UP & FWD IN STOWED POSITION
RECESS 16" DEEP IN DK P/S FOR MAKE UP RAIL RAMP (TYP)
℄ OF BARGE & BARGE TRANSPORTER P/S
19'-3" P/S
41'-0" P/S
125
120
115
110
109
108
107
105
104
102
OPERATING FLAT OVER
PLATF (OVER)
STORMRAIL
STORMRAIL P/S
BARGE POSITIONING WINCH RM P/S
RES HYD OIL TANK P/S
BARGE POS WINCH P/S
GIRDER OVER (TYP)
23" DIA A.O. W/4" COAM P/S
CHAIN P/S
FIRE RAIL P/S
26"x66" ARCH 9" SILL P/S
6'6"x36" HWAY P/S
FIRE STA #45
PASSAGE
U-106-1 26"x78" NTD NO SILL ½" UP
CLERKS OFFICE
TW TABLE
U-104-3 26"x78" NTD NO SILL ½" UP
BOS'N LKR BARGE LASHING (DQ)
TIE DOWNS (TYP)
LONGSHOREMAN'S TOILET
U-104-1 30"x63" WTD 15½" SILL W/FIXED LIGHT
U-104-5 30"x63" WTD 15½" SILL
FIRE STA #43
STORM RAIL P/S
PLATF OVER
NT
SLOPING BHD P/S
KNU HEIGHTS P/S
214-S16-1-6
P-6

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-516-1-6 GD NO.30211-03×6 FRAME 1 2 3 4 5 6 7 ⑧

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A DATE	M.A APPD	OWNER DATE	OWNER APPD
		1. REV "B" APPROVED BY J.J. HENRY LTR OF NOV 24,1969 FILE 5589/516/AHS-315-69.	[illegible]	[illegible]				
		2. REV "B" APPROVED BY ABS LTR OF JAN 15,1970						
		3. REV 'B" APPROVED BY USCG LTR OF JAN 30,1970						
6,16,17,27		4. ENCLOSURE BHDS AROUND DUMB WAITER AT FR 40 S, STAIR TOWER BHDS ADJACENT TO PASSAGE FR 42 P/S STAIR TOWER FR 70 P/S MKD "A-O", "A-O" ADDED TO ABREVIATIONS						
8,16,17,30,40		5. LOCKER & STRM LETTER CODES REVISED						
17		6. DOORS U-42-1 & 2 CHGD FROM STL. W.T. TO J.F.D & WT DOORS U-43-1 & 2 ADDED TO SUIT. STEPS ADDED IN WAY OF DOORS U-43-1 & 2 & HANDRAILS MODIFIED. BHD IN WAY OF DOORS U-43-1 & 2 CHGD FROM N.T. TO W.T.						
46		7. HOOK AT AFT END OF CANTILEVER FRS 126-130 P/S ELIMINATED. STIFFS RELOCATED TO SUIT.						
6,41,44,45,46		8. FWD & AFT ELEVATOR ROLLERS AT FRS 110 & 127 P/S REPLACED BY A ROLLER AT FR 122 P/S INBD BHD RECESSED & LADDER OPEN. AT 122½ P/S RELOCATED TO 124½ P/S. RES# 8 & 9 DELETED TO SUIT.						
6,49		9. OPER. FLAT 7'-6" ABV UPPER DK. HOOK ELIMINATED STIFFS & WINDOWS MODIFIED & RES# 6 DELETED TO SUIT.						
12,36		10. INFLATABLE LIFE RAFT AT 94½ P RELOCATED TO FR 28½ P.						
8,9		11. WINCHES P/S AT FR 9 DELETED. RECCESS FOR BARGE TRANSPORTER MULE & ASSOC DRAIN WELLS FRS 13-19 P/S DELETED.						
9		12. BOSNS LKR FRS 15-19 P/S DELETED. N.T. DOORS U-18-1 & 2 DELETED TO SUIT.						
6,9		13. OPENINGS IN BHD 19 FOR TRANSPORTER ADDED. W.T. ENCLOSURE FRS 11-19 WITH ASSOC DRAIN WELLS FRS 11-13 ADDED. W.T. DOOR U-11-1 ADDED TO SUIT. RES#1 DELETED.						
43	C	14. TITLE OF SPACE IN CANTILEVER P/S AFT OF FR 109 P/S REVISED & BARGE POSITIONING WINCHES ADDED TO SUIT.						
34		15. HEIGHT OF BOOBY HATCH TOP AT FR 89 P/S ADDED SLOPE & HEIGHT AT FWD KNUCKLES ADDED TO SUIT						
40		16. DOOR U-104-3 RELOCATED & WIDTH CHGD FROM 30" TO 26"						
16		17. DOORS U-89-1 & 2 RELOCATED TO LONG PASSAGE BHDS HANDS REVERSED & FIRE STATION 37 & 38 MOVED AFT TO CLEAR.						
44,45		18. ACCESS OPENINGS & RAILS ADDED AT FR 119½ P/S. ACCESS OPENINGS & LADDER AT FR 124½ P/S DELETED TO SUIT.						
46		19. SCUTTLES U-129-1, U-129-2 ADDED & GRAB ROD INDICATED TO FACILITATE ACCESS.						
10,16,22,27,34,41		20. SIZE OF FIRE STAS MOD & FIRE STAS ADDED AT 58 P/S.						
~		21. INDICATION OF WATER WAY MOD TO SUIT STRUCT DEV.						
43		22. DOOR U-124-1 ON OPER FLAT RENUMBERED U-126-1						
30,31		23. VENT AT 78 S DELETED & BOSN LKR EXTENDED ENCLOSURE EXTENDED FWD & AFT TO FRS 78 & 81 & WIDENED TO 7'-0" & HEIGHT OF TOP ADDED, LOUVERS & E.P.S INDICATED ALL TO SUIT VENT DEV.						
9		24. BARGE BUMBERS, INCLINED LADDERS & PLATF OVER FRS 19-23 P/S MODIFIED & SPACE REQUIREMENT FOR BARGE TRANSPORTERS INDICATED.						
34		25. LOCATION OF INBD BHD AT BOOBY HATCH AT FR 8[illegible] P/S MOVED INBD FROM 40'-9" TO 40'-5" TO SUIT PIPING DEV						
6,27,28,29		26. VENTS 71-72 P/S ADDED. UPTAKE & VENT AFT OF UPTAKE MOD TO SUIT DEV OF VENTS & UPTAKE. BOOBY HATCH 69-71 P/S MOD TO PROVIDE BACK FOR F.S. RES#11 ADDED FOR VENT & UPTAKE ENCLOSURES.						
6,31		27. HATCH U-81-1 RELOCATED TO SUIT TRUNK BELOW. RES#10 DELETED TO SUIT.						
41		28. KNUCKLE HEIGHTS OF AFT BHD 22" AFT OF 107 S ADDED						
44		29. ARCH IN BHD 119 RELOCATED TO SUIT STRUCT DEV.						
48		30. LADDER & PLATF OVER AT 124 TO 126 S MODIFIED TO CLEAR WINCH.						

CONT ON NEXT PANEL

ZONE	LTR	DESCRIPTION
16,17	C	31. STIFFS INDICATED ON MISC & EXTERIOR BHDS 39 TO 44 P/S. STIFFS ON BHD 39 REVISED TO TOE INBD. STORM RAILS IN PASSAGES RELOCATED ON INBD BHDS.
9		32. STIFFS INDICATED ON FWD SIDE OF BHD 19 HWAY JUST FWD OF 19 P MOVED FWD TO SUIT.
38		33. OFF ℄ DIM LOCATING INNER FASHION PLT ADDED AT FR 101 P.
17,27		34. INCL LADDERS LEADING ON AT FRS 42 & 70 P/S REDESIGNATED "STAIR".
16		35. DEEP VERT STIFFS ADDED ON INBD & OUTBD BHDS JUST AFT OF FR 39 P/S LOC OF ARCH IN SLOPING BHD FR 39 MOVED OUTBD FROM 30" TO 31" TO SUIT.
17		36. TRANS BHDS AT 42⅔ P/S MOVED AFT 2" TO LINE UP WITH BHD ABV.
46,48		37. WEB FRS AT 110 & 24" FWD 128 P/S RELOCATED AT 7 11/16" FWD 110 & 17 3/16" FWD 128. WINDOWS ON OPER FLAT AFT OF 128 RELOCATED TO SUIT.
43		38. SIZE OF OPENINGS, FRS 111 TO 127 P/S, FOR ACCESS TO PLATF SECURING TURNBUCKLES MODIFIED & SILL HEIGHT ADDED.
38		39. VENTS ADDED AT 100 P & 98 S. FLOAT S. MOVED AFT TO CLEAR VENT.
6,41		40. OUTER RECESS FOR RAIL RAMP MODIFIED. RES#3 DELETED TO SUIT.
~		41. STIFFS ON BHDS AFT OF 104 INDICATED.
39		42. HEIGHT OF PLATFS AT 102 P/S ADDED.
39		43. HATCH U-101-1 OVERLAP OF COVER REVISED TO SUIT HATCH DETAIL.
18		44. LIFE PRESERVER BOXES INDICATED AFT OF FR 44 P/S.
34		45. MIS GEAR BOX INDICATED AT FR 88 S & DK GEAR BOX AT 88 P.
34		46. DIESEL EXH INDICATED AT 88½ P.
31		47. F.L. DELETED FROM DOORS U-79-1 & 2.
34		48. VENT ADDED AT 88½ S
27		49. LR AT 70½ P/S RELOCATED AT 71¼.

SOURCE: ITEMS 4,5 & 6 J.J. HENRY LTR OF NOV 24, 1969, FILE 5589/516/AHS-315-69
ITEMS 7, 8 & 9 CC 8.1 CONF OF 12/3/69 & 1/7/70
ITEM 10 USCG LTR OF 3/12/70
ITEM 11, 12, 13 & 14 ADOPTION OF RUCKER SYS, CONF OF 2/5 & 2/6/70.
ITEM 15 & 16 CONF OF 1/7/70.
ITEM 17 CONF 2/5/70 CC 30
ITEM 18 CC 29
ITEM 19 CC 39
ITEMS 20 TO 49 INCL DES DEV.

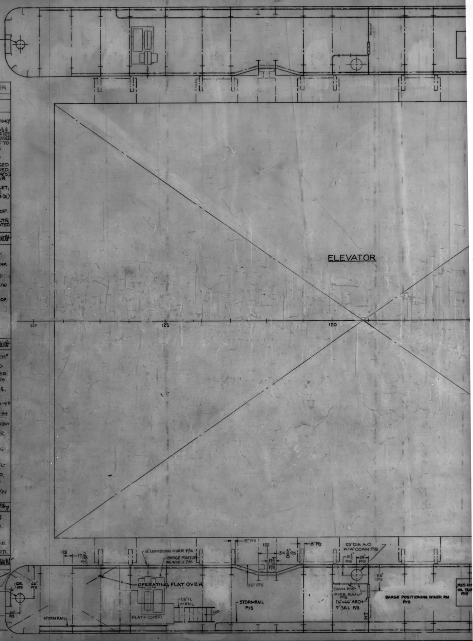
ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A DATE	M.A APPD	OWNER DATE	OWNER APPD
	D	1. REV "C" APPROVED BY J.J. HENRY LTR OF JUNE 10,1970, FILE 5589/516/AHS-274-70.	9/22/70	9/30/70				
		2. REV "C" APPROVED BY U.S.C.G. LTR OF JUNE 10,1970, FILE 5940/GEN DYN 18-20.						
17		3. SILL HEIGHT DIMENSION FOR DRS. U-43-1 & U-43-2 CHANGED FROM 23½" TO 15" & STEPS IN WAY OF SAME DELETED.						
VARIOUS		4. LINE OF INBOARD & OUTBOARD RAILS REVISED.						
VARIOUS		5. STORM RAILS ADDED & CORRECTED.						
5,6		6. FIRE STA #46 RESERVED PENDING NEW LOC. RES #12 ADDED.						
9,30,40 6,41		7. ARGT OF BOSN LKRS FRS 79 P/S, 105 P/S & BOSN STRS 106 P ADDED. RES #7 RELEASED.						
2		8. M.A. #19 FOR CONTRACT CHG # 39 DELETED						
40		9. DR U-104-2 SWING CHANGED FROM FWD & OUTBD TO FWD & INBD						
		10. PIPING TRK FR 40-41 S ENLARGED TO FACILITATE PIPING INSTALL						
17		11. LADDER RUNGS ON AFT SIDE OF HSE FR 44 P/S DELETED.						
42,43 & 49		12. TYP ARGT OF BARGE POS TURNBUCKLES AT FR 117 P/S, HYD OIL TK AT FR 115 P/S & CONSOL ON OPER FLAT AT FR 128 S ADDED.						
		13. BHD 11 P/S. RADIUS CORNERS INDICATED AS 6".						
14 & 15		14. VENT ENCLOSURE FR 35 P/S MODIFIED. DOORS U-34-1 & U-34-2 ADDED TO SUIT.						
27,28 & 29		15. BOOBY HATCH, VENT ENCLOSURE & SMOKESTACK FR 70 TO FR 76 P/S, MODIFIED. RES #11 RELEASED						
30 & 31		16. VENT ENCLOSURES P/S & BOS'N LKR (S) FR 80 MODIFIED						
32 & 33		17. DIESEL INTAKE & EXH AT FR 84 & FR 86 (P), ADDED						
38		18. DIMENSIONS LOCATING VENT AT FR 99 ADDED.						
11 TO 35 [illegible]		19. GUARDRAILS ADJACENT TO SHELL FRS 25 TO 100 P/S ADDED.						
9		20. VENTS ADDED FRS 14 TO 21 P/S ARGT OF BOSNS LKR MOD TO SUIT.						
11		21. VENT. ENCL. ADDED BET. FRS 26-27 PORT & BET FRS 25-26 (S).						
14		22. LADDER RUNGS ADDED BELOW DRS. U-34-1 & U-34-2 & SILL HGHT REVISED FROM 15½" TO 28".						

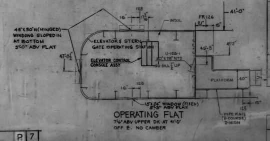
SOURCE: ITEMS 3, 4 & 5 TO SUIT J.J. HENRY LTR OF JUNE 10, 1970, FILE 5589/516/AHS-274-70.
ITEMS 6, 7 & 9 THRU 22 INCL DES DEV.
ITEM 8 DESIGN CORRECTION.

REV E CONT. IN PANEL 47

ZONE	LTR	DESCRIPTION	Q DIV DATE	Q DIV APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	E	1. PLAN REV "D" APPROVED BY J.J. HENRY LTR., FILE 5589/516/JUM-491-70 DATED OCT 19,1970	[illegible]	[illegible]				
		2. PLAN REV "D" APPROVED BY USCG LTR., FILE: 5940/GEN DYNAMICS 18-20 DATED 16 OCT 1970.						
40,41		3. FIRE STATION #46 RELOC TO PORT SIDE FR 106-106½ & RES #12 RELEASED. FIRE STATION #47 (P) RELOC TO FR 107.						
39		4. DIMENSIONS FOR ACCESS PLATFS FR 102½ P/S REVISED						
38		5. EXH VENT (P) FR 99-100 - 15"x23" BP RELOC FROM 18" TO 21". OPENING ADDED IN OUTBD BHD. TOP ABV DK AT ℄ LOUVER REVISED FROM 8'-0" TO 8'-4".						
40,41		6. HANGING RODS IN BOSN LKRS (DR)(P) & (DQ)(S) FRS 104-106 MODIFIED.						
17		7. OILSKIN LKRS (DN)(P) & (DL)(S) FR 43 REARRANGED						
7-9		8. BOSN LKR (DG) BOW TO FR 19 - FITTINGS ARR ADDED.						
9		9. FOREMAST - 15"x23" WT BPMH ADDED 10½" FWD FR 19 (S)						
14		10. FAN RMS FR 34-35 P/S MODIFIED TO SHOW CLEAR ACCESS FROM UPPER DK.						
40,41,48,49		11. INSULATION INDICATED IN LONGSHOREMANS TOILET, 104-105 (S), CLERKS OFFICE 106-107 (S) & ELEVATOR & STERN GATE OPERATING STATION, FR 126-130 (S)						
42,45		12. LEAD BLOCKS INDICATE P/S IN WAY OF BARGE POSITIONING WINCHES FR 125½ & FR 112½.						
		SOURCE: ITEMS 3 THRU 9 - DESIGN DEVELOP. ITEMS 10 THRU 12 - TO SUIT COMMENTS OF J.J. HENRY LTR FILE: 5589/516/JUM-491-70, DATED OCTOBER 19, 1970						
	F	1. PLAN REV "E" APPROVED BY J.J. HENRY LTR, FILE. 5589/516/JUM-575-70 DATED DEC 28, 1970	[illegible]	1-19-71			2 FEB 1971	[illegible]
		2. PLAN REV "E" APPROVED BY U.S.C.G LTR FILE 5940/GEN DYN HULL 18-20 DATED DEC 22, 1970						
16,17		3. WOOD GRATING INDICATED IN OIL SKIN LKRS (DN), (DL) & EMER GEAR LKR (DK) BET FRS 40-43 P/S.						
16		4. ALUM GRATING INDICATED IN BOSNS LKR (BARGE LASHING) (DM) BET FRS [illegible]-40 (P)						
30		5. POTABLE WATER HOSE LKR & VALVE ADDED ON FWD SIDE OF BHD 78 (S) & GUARDRAIL DELETED.						
43		6. RESERVE HYD OIL TK ADDED BET FR 115-117 P/S.						
[illegible]		7. POTABLE WATER HOSE LKR, ADDED TO INBD SIDE & FWD OF TRANSV BHD 44 FWD FR 77 (P) VALVE ADDED AFT FR 76 (P).						
17		8. GRATING IN BOSNS LKR (DJ) (BARGE LASHING) DELETED						
		SOURCE: ITEM 3 TO SUIT PLAN # 30573-82X2 MA 241-514-01-03 ITEM #4 TO SUIT PLAN # 30573-82X1 MA 241-514-01-01 ITEM # [illegible] DES DEV. ITEM # 8 TO SUIT PLAN # 30211-58X6 MA 241-530-01X10						
5		9. RES #13 ADDED						
	G	1. PLAN REV "F" APPROVED BY U.S.C.G LTR FILE: 5940/GEN DYN 18-20 DATED 30 MARCH 1971.	[illegible]	[illegible]			7 JUN 1971	[illegible]
		2. PLAN REV "F" APPROVED BY J.J HENRY YARD REP. BY IRM # S-14-0478 DATED 1-18-71 APPROVED 2-2-71.						
20,21		3. ACCOMODATION LADDER, RAILS & WINCHES INDICATED AT FR 49 55 P/S & RES #2 RELEASED						
18,19		4. LIFEBOATS #1 & 2, FR 45-48 P/S INDICATED & RES #2 RELEASED.						
39		5. AT FR 103¾ ADDED 12"x18" F.O 2" ABV DK AT LONG. BHD P/S FOR DRAINAGE.						
42-45		6. DELETED 32"x36" A.O & TURNBUCKLES & FRS 111½, 114½, 117½, 120½, 123½ & 126½. TO SUIT ELEV. SEC AT SEA PLAN 30617-07×8.						
40		7. AT FR 104, RELOCATE DOORS U-104-1 (S) & U-104-2 & U-104-4 (P) 4" OUTBD TO CLEAR INTERFERENCE W/ STRUCTURE.						
17		8. RELOCATED LIFE PRESERVER BOXES P/S TO 7" AFT FR 44 TO CLEAR DK DRAIN						
29		9. RELOCATED 15"x23" BPMH ON STACK ABT FR 75½ FROM 18" TO 9" OFF ℄ STACK P/S TO CLEAR/STIFF'G STRUCT.						
42		10. WINCH LOCATIONS REVISED FROM FR 112-113 TO FR 114-115 P/S TO SUIT RIGGING ARRGT.						
17		11. DELETE A.O. AT LONG BHD 46" FWD FR 44 P/S & ADD 26"x63" DOORS 40½" FWD FR 44, P/S REDESIGNATE SPACE FROM "PLENUM" TO "FAN RM".						
8,9		12. AREA FWD FR 19 REDESIGNATED FROM "BOSUN LOCKER" TO "SPECIAL CARGO LOCKER" PER TEL-CON BET. IWW/GD & B.THOMAS/JJHENRY ON 6/10/71						
		SOURCE: ITEMS # 3, 4, 5, 9, 10 & 11 DES. DEVELOP. " # 6 GD CC # 55, MARAD # 28 " 7 L.R. # 11227 OF 19 MAY 71. " 8 IRM 872 DEPT # 15 OF 4/17/71 " 12 JJ HENRY REQUEST.						
	H	1. PLAN REV "G" APPROVED BY J.J HENRY YARD REP. BY IRM # S-07-0363 DATED 6-1-71 APPROVED 7-7-71	[illegible]	[illegible]			[illegible]	[illegible]
9,10,40		2. FREEING PORTS ADDED AT SHELL P/S FR 20½, 24½ & 103¾						
30		3. BHD DESIGNATION 9" AFT FR 79 (S) REVISED FROM A.T. TO N.T. BHD.						
29,30		4. POTABLE WATER HOSE LKRS 77 (P) & 78 (S) DELETED.						
41		5. FIRE STA #47 (P) RELOC FROM FR 107 TO 12" FWD FR 107.						
		SOURCE: ITEM 2 TO SUIT I.W.W. TEL CON 7-20-71. ITEM 3 TO SUIT 872 DEPT I.R.M. DATED 6-8-71. ITEM 4 TO SUIT AEA S-0573. ITEM 5 TO SUIT 872 DEPT I.R.M. DATED 6-22-71.						
396	J	1. HINGING OF HATCH NO. U-102-2 CHGD FROM FWD TO AFT TO FACILITATE OPENING HATCH COVER - SOURCE: TO SUIT SHIP.	[illegible]	[illegible]			13 SEP 1971	[illegible]
68	K	1. RESERVATION NO. 13 DELETED TO SUIT ITEM #6 IN REV "G". SOURCE DES CORR.	JK 1/12/72	[illegible]				
31-A	L	1. HATCH NO. U-81-1 HINGE RELOCATED FROM AFT TO FWD SIDE SOURCE: INCORP AEA No. S-1177 REV "B"	JK [illegible]	[illegible]				

CONT. ON PANEL #6 & #7





48"x30"H (HINGED) WINDOWS SLOPED IN AT BOTTOM 5'-0" ABV FLAT
128
16"
17 3/16"
INSUL
FR 126
21"
15"
41'-0"
ELEVATOR & STERN GATE OPERATING STATION
47'-8½"
ELEVATOR CONTROL CONSOLE ASSY
U-126-1 30"x78" NTD NO SILL 1½" UP
46'-8"
45'-2"
PLATFORM
40"
DN
16"
128
18"x24" WINDOW (FIXED) 5'-3" ABV FLAT
15"
125
PIPE RAIL (2-COURSE) 2-HIGH

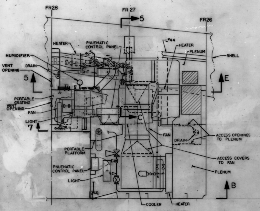
OPERATING FLAT
7'-6" ABV UPPER DK AT 41'-0" OFF ℄. NO CAMBER

214-S16 01-06 P 7

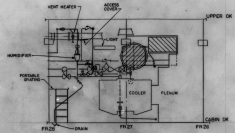
214-S16-1-6

GENERAL DYNAMICS, QUINCY NOV, 1973 10X
MA NO.241-S16-01-11 GD NO. 30213-88x1 FRAME ①234

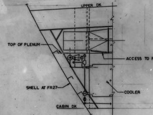
M.A. DWG NO. 241-S16-01-11


FR28
FR 27
5
FR26
HEATER
PNUEMATIC CONTROL PANEL
L 44
HEATER
PLENUM
SHELL
HUMIDIFIER
VENT OPENING
DRAIN
LIGHT
5
E
PORTABLE GRATING
VENT OPENING
FAN
LIGHT
7
C
FAN
DRAIN
ACCESS OPENINGS TO PLENUM
PORTABLE PLATFORM
ACCESS COVERS TO FAN
PNUEMATIC CONTROL PANEL
PLENUM
LIGHT
B
COOLER
HEATER

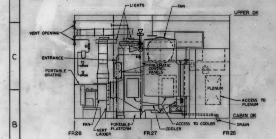
PLAN VIEW CABIN DK PORT SIDE


VENT HEATER
ACCESS COVER
UPPER DK
LIGHT
HUMIDIFIER
PORTABLE GRATING
COOLER
PLENUM
CABIN DK
FR28
DRAIN
FR 27
FR26

ELEVATION 5-E


UPPER DK
TOP OF PLENUM
ACCESS TO FAN
SHELL AT FR27
COOLER
CABIN DK

SECTION 5-C


LIGHTS
FAN
UPPER DK
VENT OPENING
ENTRANCE
PNEUMATIC CONTROL PANELS
PORTABLE GRATING
PLENUM
ACCESS TO PLENUM
CABIN DK
FAN
VERT LADDER
PORTABLE PLATFORM
COOLER
ACCESS TO COOLER
DRAIN
FR28
FR 27
FR26

ELEVATION 7-B

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	DWG. APPROVED BY J.J. HENRY YARD REPRESENTATIVE	5/21/71	WRL			1 JUN 1971	WRL

REVISIONS TO	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO								800		
LYKES								820		
M.A.(WASH)								826		
M.A.(YARD)								829		
J.J.HENRY(YARD)								830		
J.J.HENRY(HOME)								841		
ABS								842		
USCG								843		
USPHS								844		
MAIN VAULT		1						899		
872 [illegible]		1						LIBRARY		
871										
872										
873										
874										
875										
876										
TOTAL NRO'S FS		2								
TOTAL NRO'S HS										
TOTAL RO								TOTAL		

GENERAL NOTES

1. ACCESS TO CONTROLS AND FOR MAINTENANCE OF EQUIPMENT IN FAN ROOM SHALL BE VERIFIED WHEN INSTALLATION IS COMPLETE. NECESSARY RELOCATIONS FOR PROPER ACCESS, OR INSTALLATION OF ADDITIONAL PLATFORMS, LADDERS ETC. SHALL BE MADE TO SUIT CONDITIONS.

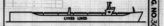
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
A 11-9-73

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
3	ELECT INSTALLATION MOD 206	30206-601	—
2	PIPING MOD 206 UPPER, CABIN & MN DK	30206-200	—
1	VENT MODULE 206 ALL LEVELS	30206-230	—

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO.
30213-88X1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR
SUPV
ENGR
APPROVED DATE
R. J. Bradford
FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED
ABS
USCG
USPHS

FAN ROOM ACCESS & MAINT
FR26-28 CABIN DK PORT

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-01-11	A

SCALE 1/2" = 1'-0"
SHEET 1 OF 1

AREA = SQ FT

TYPE I/D

DWG. NO. 30213-88X1

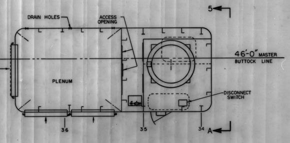
Q div DWG NO. 30213-88X1

GENERAL DYNAMICS, QUINCY NOV, 1973 10X
MA NO. 241-516-01-12 GD NO. 30213-88×2 FRAME ① 2 3 4

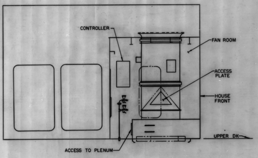
M.A. DWG NO. 241-S16-01-12

Q div DWG NO. 30213-88 X 2

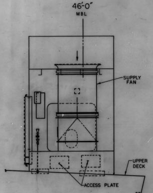
REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	DWG. APPROVED BY J.J. HENRY YARD REPRESENTATIVE 4/29/71. S.Y.	5/5/71					


5
DRAIN HOLES
ACCESS OPENING
46'-0" MASTER BUTTOCK LINE
PLENUM
DISCONNECT SWITCH
36
35
34
A

PLAN VIEW UPPER DECK
FWD


CONTROLLER
FAN ROOM
ACCESS PLATE
HOUSE FRONT
UPPER DK
ACCESS TO PLENUM

ELEV
LKG OUTB'D


46'-0"
MBL
SUPPLY FAN
UPPER DECK
ACCESS PLATE

SECT 5-A
LKG AFT

GENERAL NOTES

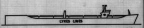
REVISIONS TO	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
		5/7/71			30212	A	5-13-71	800		4
LYKES		1						820		
M.A.(WASH)								826		12
M.A.(YARD)								829		
J.J.HENRY(YARD)		1						830		7
J.J.HENRY(HOME)		2						841		
ABS								842		
USCG								843		1
USPHS								844		5
New Orleans LYKES								899		
								LIBRARY		5
								812		1
								814		1
871										
J. Sengler 872		1								
873										
874										
875										
876										
TOTAL NRO'S FS		3								
TOTAL NRO'S HS										
TOTAL RO								TOTAL		36

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
4	MISC HOUSES & VENT TRUNKS	30431-15 X 1	241-S11-07-04
3	ELEC MOD 306 INDEX OF PLANS	30306-601	———
2	VENT MOD 306 ALL DECKS	30306-230	———
1	PIPING MOD 306 UPPER DECK	30306-200	———

REFERENCES

Q div DWG NO. 30213-88 X 2

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN W.J.C.
DSGNR
SUPV
ENGR

FAN ROOM ACCESS AND MAINT
FR 33½-35½ UPPER DK PORT

APPROVED DATE R.J. Bradford
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-01-12	A

SCALE 1/2" = 1'-0" SHEET 1 OF 1

APPROVAL LTR DATED
ABS
USCG
USPHS

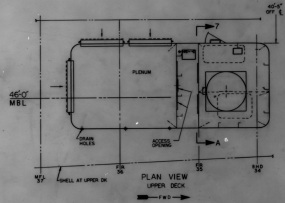
REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

AREA = 10 SQ FT

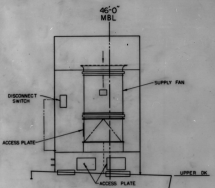
TYPE I/D

GENERAL DYNAMICS, QUINCY NOV, 1973 10X
MA NO. 241-S16-01-13 GD NO. 30213-88x3 FRAME ① 2 3 4



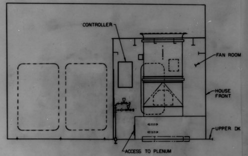
40'-5"
OFF ℄
7
PLENUM
46'-0"
MBL
DRAIN HOLES
ACCESS OPENING
A
MFL 37
SHELL AT UPPER DK
FR 36
FR 35
BHD 34
FWD

PLAN VIEW
UPPER DECK



46'-0"
MBL
DISCONNECT SWITCH
SUPPLY FAN
ACCESS PLATE
ACCESS PLATE
UPPER DK

SECT 7-A
LKG FWD



CONTROLLER
FAN ROOM
HOUSE FRONT
UPPER DK
ACCESS TO PLENUM

ELEV
LKG INB'D

GENERAL NOTES

REVISIONS ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	DWG. APPROVED BY J.J. HENRY YARD REPRESENTATIVE 4/29/71. S.K.	5/5/71	WEJ			5/6/71	[illegible]

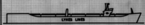
REVISIONS	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		5/7/71						800		
LYKES		/						820		
M.A.(WASH)								826		
M.A.(YARD)								829		
J.J.HENRY(YARD)		/						830		
J.J.HENRY(HOME)		2						841		
ABS								842		
USCG								843		
USPHS								844		
New Orleans LYKES		/						899		
								LIBRARY		
								812		
								814		
871								[illegible]		
J. Sinclair 872		/						DES LIB		
873										
874										
875										
876										
TOTAL NRO'S FS		[illegible]								
TOTAL NRO'S HS										
TOTAL RO								TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE



LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
4	MISC HOUSES & VENT TRUNKS	30431-15X01	241-S11-07-04
3	ELEC MOD 307 INDEX OF PLANS	30307-601	—
2	VENT MOD 307 ALL DECKS	30307-230	—
1	PIPING MOD 307 LOWER DK & ABV	30307-200	—

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO.
30213-88 X 3

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR W.J.C.
SUPV J. Busefer
ENGR WCTay
APPROVED DATE R J Bradford
FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED
ABS
USCG
USPHS

FAN ROOM ACCESS AND MAINT
FR 33½-35½ UPPER DK STBD

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-01-13	A

SCALE 1/2"=1'-0" SHEET 1 OF 1

DWG. NO. 30213-88 X 3

M.A. DWG NO. 241-S16-01-13

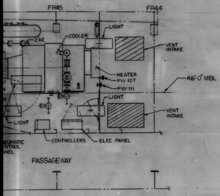
Q div DWG NO. 30213-88 X 3

AREA = 10 SQ FT

TYPE I/D

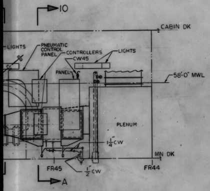
GENERAL DYNAMICS, QUINCY NOV. 1973 8X
MA NO.241-S16-01-14 GD NO.30213-88x4 FRAME ① 2 3 4

8 7 6 5 4 3 2 1


FR45
FR44
LIGHT
2"AE
COOLER
VENT INTAKE
HEATER
PW 107
PW 111
46'-0" MBL
LIGHT
VENT INTAKE
LIGHT
NEUMATIC ONTROL ANEL
CONTROLLERS
ELEC PANEL
PASSAGEWAY

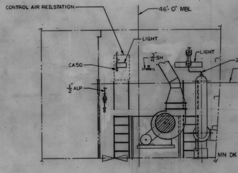
FWD

PLAN VIEW
MAIN DK - PORT


10
CABIN DK
LIGHTS
PNEUMATIC CONTROL PANEL
CONTROLLERS
CW45
LIGHTS
PANEL
58'-0" MWL
PLENUM
$1\frac{1}{4}$"CW
MN DK
FR45
$\frac{1}{2}$"CW
FR44
A

FWD

LEVATION VIEW LKG OUTBD


CONTROL AIR RED. STATION
46'-0" MBL
LIGHT
CA50
$\frac{3}{4}$"SH
LIGHT
2"AE
58'-0" MWL
$\frac{1}{2}$"ALP
MN DK

SECTION 5-A

241-S16-01-14	A	2

GENERAL NOTES

	REVISIONS		Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD

	REVISIONS		Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	DWG. APPROVED BY J.J. HENRY YARD REPRESENTATIVE YEA JS	5/21/71	wrf			28 May 1971	Watt

REVISIONS	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		6-7-71			30212	A	6-3-1	800		4
LYKES								820		
M.A.(WASH)								826		12
M.A.(YARD)								829		
J.J.HENRY(YARD)								830		7
J.J.HENRY(HOME)								841		
ABS								842		
USCG								843		1
USPHS								844		5
								899		
								LIBRARY		5
								812		1
								814		1
871								TPS 866		1
872		1						LIASON		1
873										
874										
875										
876										
MAIN VAULT		1								
TOTAL NRO'S FS		2								
TOTAL NRO'S HS										
TOTAL RO								TOTAL		38

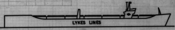
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G
	APPROVAL NOT REQD						

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
A 11-9-73

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
3	INDEX OF PLANS REF PLANS & NOTES	30316-601	—
2	VENT ALL LEVELS	30316-230	—
1	PIP MOD 316 MN & LWR DKS	30316-200	—

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO.
30213-88X4

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR Al Becker
SUPV J Sunglass
ENGR W Trout

FAN ROOM ACCESS & MAINT.
FR44-46 MN DK-PORT

APPROVED DATE
R. J. Bradford
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-01-14	A

SCALE 1/2" = 1'-0"
SHEET 1 OF 1

APPROVAL LTR DATED
ABS
USCG
USPHS

H G F E D C B A

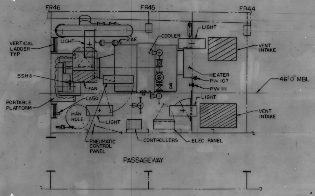
M.A. DWG NO. 241-S16-01-14
DWG. NO. 30213-88X4
Q div DWG NO. 30213-88X4

AREA = 14 SQ FT

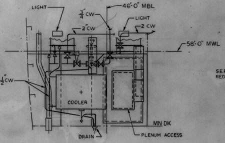
TYPE I/D

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

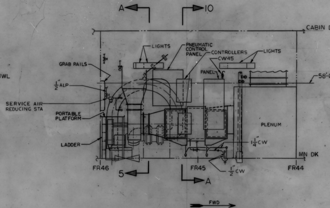
MA NO.241-516-01-14 GD NO.30213-88x4 FRAME 1 ② 3 4


FR46
FR45
FR44
VERTICAL LADDER TYP
LIGHT
2" AE
COOLER
LIGHT
VENT INTAKE
5SH8
FAN
HEATER
PW 107
PW 111
46'-0" MBL
PORTABLE PLATFORM
CA50
MAN HOLE
LIGHT
LIGHT
VENT INTAKE
PNEUMATIC CONTROL PANEL
CONTROLLERS
ELEC PANEL
PASSAGEWAY
FWD

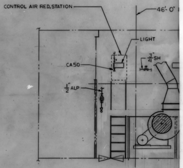
PLAN VIEW
MAIN DK - PORT


LIGHT
3/4" CW
46'-0" MBL
2" CW
LIGHT
2 CW
58'-0" MWL
1/2" CW
COOLER
MN DK
DRAIN
PLENUM ACCESS

SECTION 10-A

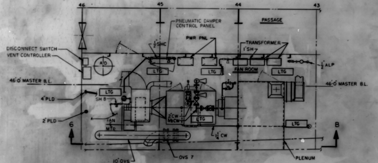

A
10
CABIN DK
LIGHTS
PNEUMATIC CONTROL PANEL
CONTROLLERS
LIGHTS
CW45
PANEL
GRAB RAILS
58'-0" MWL
1/2" ALP
SERVICE AIR REDUCING STA
PORTABLE PLATFORM
PLENUM
LADDER
1 1/4" CW
MN DK
FR46
5
FR45
1/2" CW
FR44
A
FWD

ELEVATION VIEW LKG OUTBD

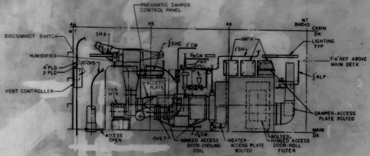

CONTROL AIR RED.STATION
46'-0"
LIGHT
CA50
3/4" SH
1/2" ALP

SECTION 5-

241-S16-01-14


46
45
44
43
PASSAGE
PNEUMATIC DAMPER CONTROL PANEL
PWR PNL
TRANSFORMER
1 1/2" SHC
1" SH
1/2" ALP
DISCONNECT SWITCH
VENT CONTROLLER
A/C
LTG
FAN ROOM
46'-0 MASTER B.L.
4" PLD
SH 8
2" PLD
2" CW
1 1/2" CW
FAN MTR
1 1/4" CW
6
B
10" OVS
OVS 7
PLENUM

PLAN MAIN DECK STBD
→FWD→


PNEUMATIC DAMPER CONTROL PANEL
46
W T
45
44
NT BHD 43
CABIN DK
DISCONNECT SWITCH
SH 8
1 1/2" SHC
2" CW
XMFR
1" SH
LIGHTING TYP
7'-6 REF ABOVE MAIN DECK
HUMIDIFIER
10" OVS
1 1/2" CW
PWR PNL
4" PLD
2 PLD
1/2" ALP
VENT CONTROLLER
FAN MTR
ACCESS PLATE
DAMPER-ACCESS PLATE BOLTED
MAIN DK
ACCESS OPEN
OVS 7
1 1/4" CW
HINGED ACCESS DOOR-COOLING COIL
HEATER-ACCESS PLATE BOLTED
BOLTED-HINGED ACCESS DOOR-ROLL FILTER

ELEVATION 6-B

GENERAL NOTES

ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	DWG. APPROVED BY J.J. HENRY YARD REPRESENTATIVE	5/21/71	wrf			1 June 1971	[illegible]
	B	CORRECTIVE ACTION DESIGN: TO SUIT ELECTRICAL ARR. ADDED: DISCONNECT SWITCH & VENT CONTROLLER. REVISED: LOCATION OF PNEUMATIC DAMPER CONTROL PANEL FROM BHD 46.	9/1/71	wrf			[illegible] 1971	[illegible]
	C	CORRECTIVE ACTION DESIGN: PLAN UPDATED TO SUIT REV"E" OF REF 3. RELOC. 3 TRANSFORMERS.	5/3/72	wrf			[illegible] 1972	[illegible]

REVISIONS TO	O	A	B	C
LYKES			[illegible]	[illegible]
M.A.(WASH)			[illegible]	[illegible]
M.A.(YARD)			[illegible]	[illegible]
J.J.HENRY(YARD)			[illegible]	[illegible]
J.J.HENRY(HOME)			[illegible]	[illegible]
ABS				
USCG				
USPHS				
[illegible]	1		[illegible]	[illegible]
[illegible]			[illegible]	[illegible]
[illegible]			[illegible]	[illegible]
[illegible]			[illegible]	[illegible]
871				
872	1		[illegible]	[illegible]
873				
874				
875				
876				
[illegible]			[illegible]	[illegible]
TOTAL NRO'S FS	2		[illegible]	[illegible]
TOTAL NRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
[illegible]	A	[illegible]	800		4
	B	[illegible]	820		
	C	[illegible]	826		13
			829		
			830		7
			841		
			842		
			843		2
			844		5
			899		
			LIBRARY		3
		[illegible]	812		1
		[illegible]	912		1
			TOTAL		[illegible]

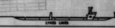
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
C [illegible]

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
3	ELECT. INSTALL. MOD 317	30317-603	—
2	PIP MOD 317 LWR DK & ABV.	30317-200	—
1	VENT. MOD 317 ALL DECKS	30317-230	—

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO.
30213-88X5

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN T. JOYCE
DSGNR
SUPV [illegible]
ENGR [illegible]

FAN ROOM ACCESS & MAINT.
FR43-46 MN DK - STBD

APPROVED DATE
R. J. Bradford
FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED
ABS
USCG
USPHS

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-516-01-15	C

SCALE 1/2" = 1'-0"
SHEET OF

AREA = 10 SQ FT

TYPE I/D

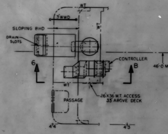
M.A. DWG NO. 241-516-01-15
DWG. NO. 30213-88X5
Q div DWG NO. 30213-88X5

GENERAL DYNAMICS, QUINCY NOV, 1973 10X
MA NO. 241-516-01-15 GD NO. 30213-88x5 FRAME ① 2 3 4

GENERAL DYNAMICS, QUINCY NOV., 1973 10X

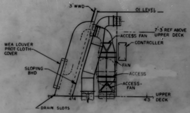
MA NO. 241-516-01-16 GD NO. 30213-88x6 FRAME ① 2 3 4

M.A. DWG NO. 241-516-01-16



WT
3" WWD
SLOPING BHD
DRAIN SLOTS
WT
CONTROLLER
6
B
46'-0" M.B.L.
WT
PASSAGE
26"X36" W.T. ACCESS 33" ABOVE DECK
44
43

MOD 322
PLAN UPPER DECK - PORT
FWD



3" WWD
01 LEVEL
7'-3" REF ABOVE UPPER DECK
ACCESS FAN
CONTROLLER
WEA LOUVER PROT CLOTH COVER
SLOPING BHD
FAN
ACCESS
ACCESS-FAN
44
43
UPPER DECK
DRAIN SLOTS

ELEVATION "6-B"

GENERAL NOTES

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	DWG. APPROVED BY J.J. HENRY YARD REPRESENTATIVE	[illegible]	[illegible]			[illegible]	[illegible]

REVISIONS TO	O	A	B	C
LYKES				
M.A.(WASH)				
M.A.(YARD)				
J.J.HENRY(YARD)				
J.J.HENRY(HOME)				
ABS				
USCG				
USPHS				
[illegible]		1		
871				
872		1		
873				
874				
875				
876				
TOTAL NRO'S FS		2		
TOTAL NRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
[illegible]	[illegible]	[illegible]	800		[illegible]
			820		
			826		[illegible]
			829		
			830		7
			841		
			842		
			843		1
			844		[illegible]
			899		
			LIBRARY		[illegible]
			[illegible]		1
			[illegible]		1
			[illegible]		1
			[illegible]		1
			TOTAL		[illegible]

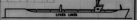
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
A 11-9-73

SEABEE



LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
3	ELECT. INSTALL. MOD 322	30322-603	—
2	PIPING MOD 322 & 323	30322-200	—
1	VENT MOD 322 & 323 ALL LEVELS	30322-230	—

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO. 30213-88x6

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN T. JOYCE
DSGNR NONE
SUPV [illegible]
ENGR [illegible]
APPROVED DATE R. J. Bradford
FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED
ABS
USCG
USPHS

FAN ROOM ACCESS & MAINT
FR43-44 UPPER DK PORT

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-01-16	A

SCALE 1/2" = 1'-0" SHEET OF

DWG. NO. 30213-88X6

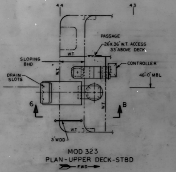
Q div DWG NO. 30213-88x6

AREA = 10 SQ FT

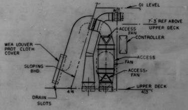
TYPE I/D

GENERAL DYNAMICS, QUINCY NOV, 1973 10X
MA NO. 241-S16-01-17 GD NO. 30213-88x7 FRAME ① 2 3 4

ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	DWG. APPROVED BY J.J. HENRY YARD REPRESENTATIVE			8/2/71	WG		June 1971


44
43
PASSAGE
26"X 36" W.T. ACCESS 33" ABOVE DECK
SLOPING BHD
CONTROLLER
DRAIN SLOTS
46'-0" MBL
W.T.
W.T.
W.T.
W.T.
6
B
3" WDD
FWD

MOD 323
PLAN-UPPER DECK-STBD


01 LEVEL
W.T.
7'-3" REF ABOVE UPPER DECK
ACCESS FAN
CONTROLLER
WEA LOUVER PROT CLOTH COVER
ACCESS
FAN
SLOPING BHD.
ACCESS-FAN
UPPER DECK
44
43
DRAIN SLOTS

ELEVATION "6-B"

GENERAL NOTES

REVISIONS TO	O	A	B	C
LYKES				
M.A.(WASH)				
M.A.(YARD)				
J.J.HENRY(YARD)				
J.J.HENRY(HOME)				
ABS				
USCG				
USPHS				
Main Vault	1			
871				
872	1			
873				
874				
875				
876				
TOTAL MRO'S FS	2			
TOTAL MRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	6-8-1	800		4
			820		
			826		18
			829		
			830		7
			841		
			842		
			843		1
			844		5
			899		
			LIBRARY		5
			812		1
			814		1
			T/S 866		1
			[illegible]		1
			TOTAL		[illegible]

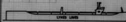
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
A 11-12-73

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
3	ELECT INSTALL MOD 323	30323-603	—
2	PIPING MOD 322 & 323	30322-200	—
1	VENT MOD 322 & 323 ALL LEVELS	30322-230	—

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO. 30213-88X7

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN T. JOYCE
DSGNR NONE
SUPV Gallagher
ENGR
APPROVED DATE R J Beaulieu
FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED
ABS ------
USCG ------
USPHS ------

FAN ROOM ACCESS & MAINT
FR43-44 UPPER DK STBD

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-01-17	A

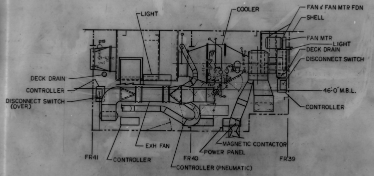
SCALE 1/2" = 1'-0" SHEET OF

AREA = 10 SQ FT

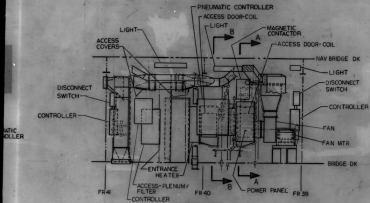
TYPE I/D

M.A. DWG NO. 241-S16-01-17
DWG. NO. 30213-88X7
Q div DWG NO. 30213-88X7

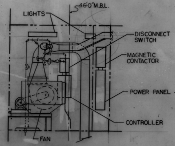
8 7 6 5 4 3 2 1


LIGHT
COOLER
FAN & FAN MTR FDN
SHELL
FAN MTR
LIGHT
DECK DRAIN
DISCONNECT SWITCH
DECK DRAIN
CONTROLLER
DISCONNECT SWITCH (OVER)
46'-0" M.B.L.
CONTROLLER
EXH FAN
MAGNETIC CONTACTOR
POWER PANEL
FR41
CONTROLLER
FR40
FR39
CONTROLLER (PNEUMATIC)

PLAN VIEW
FWD


PNEUMATIC CONTROLLER
ACCESS DOOR-COIL
LIGHT
B
MAGNETIC CONTACTOR
A
ACCESS DOOR-COIL
LIGHT
ACCESS COVERS
NAV BRIDGE DK
LIGHT
DISCONNECT SWITCH
DISCONNECT SWITCH
CONTROLLER
CONTROLLER
FAN
FAN MTR
ATIC
OLLER
ENTRANCE HEATER
BRIDGE DK
ACCESS-PLENUM & FILTER
CONTROLLER
B
A
POWER PANEL
FR41
FR40
FR39

ELEVATION


LIGHTS
46'-0" M.B.L.
DISCONNECT SWITCH
MAGNETIC CONTACTOR
POWER PANEL
CONTROLLER
FAN

SECTION A-A

241-S16-01-18 A 2

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	DWG. APPROVED BY J.J. HENRY YARD REPRESENTATIVE	5/21/71	wef			1 JUN 1971	

H G F E D C B A

REVISIONS	O	A	B	C
TO		6/2/71		
LYKES				
M.A.(WASH)				
M.A.(YARD)				
J.J.HENRY(YARD)				
J.J.HENRY(HOME)				
ABS				
USCG				
USPHS				
MAIN VAULT		1		
872 SINGLES		1		
871				
872				
873				
874				
875				
876				
TOTAL NRO'S FS		2		
TOTAL NRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
			800		
			820		
			826		
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIBRARY		
			TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

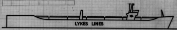
GENERAL NOTES

1. ACCESS TO CONTROLS AND FOR MAINTENANCE OF EQUIPMENT IN FAN ROOM SHALL BE VERIFIED WHEN INSTALLATION IS COMPLETE. NECESSARY RELOCATIONS FOR PROPER ACCESS, OR INSTALLATION OF ADDITIONAL PLATFORMS, LADDERS ETC. SHALL BE MADE TO SUIT CONDITIONS.

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

REV. A 10-8-73

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
3	ELEC INSTALLATION MOD 324	30324-613	—
2	PIP MODS 324 & 325	30324-200	—
1	VENT ALL DKS MOD 324 & 325	30324-230	—

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO.
30213-88x8

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN McAuliffe
DSGNR
SUPV J Singles
ENGR W Grant
APPROVED DATE R. J. Bradford
FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED
ABS
USCG
USPHS

FAN ROOM ACCESS & MAINT
FR 39-41 BRIDGE DK PORT

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-01-18	A

SCALE 1/2"=1'-0" SHEET 1 OF 1

AREA = SQ FT

TYPE I/D

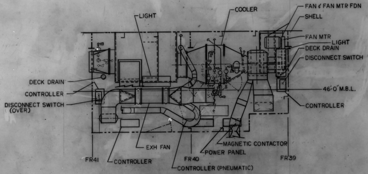
M.A. DWG NO. 241-S16-01-18

Q div DWG NO. 30213-88x8

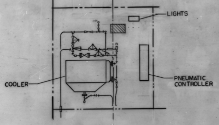
DWG. NO. 30213-88x8

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S16-01-18 GD NO. 30213-88x8 FRAME ① 2 3 4

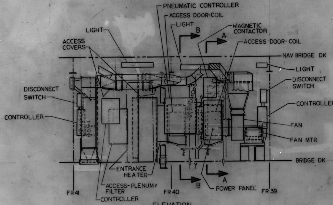
GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-516-01-18 GD NO. 30213-88×8 FRAME 1 ② 3 4


LIGHT
COOLER
FAN & FAN MTR FDN
SHELL
FAN MTR
LIGHT
DECK DRAIN
DISCONNECT SWITCH
46'-0" M.B.L.
CONTROLLER
DECK DRAIN
CONTROLLER
DISCONNECT SWITCH (OVER)
MAGNETIC CONTACTOR
POWER PANEL
EXH FAN
FR 41
CONTROLLER
FR 40
CONTROLLER (PNEUMATIC)
FR 39

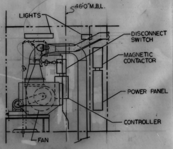
PLAN VIEW
FWD


46'-0" M.B.L.
LIGHTS
COOLER
PNEUMATIC CONTROLLER

SECTION B-B


PNEUMATIC CONTROLLER
ACCESS DOOR-COIL
LIGHT
MAGNETIC CONTACTOR
B
A
ACCESS DOOR-COIL
LIGHT
ACCESS COVERS
NAV BRIDGE DK
LIGHT
DISCONNECT SWITCH
DISCONNECT SWITCH
CONTROLLER
CONTROLLER
FAN
FAN MTR
BRIDGE DK
ENTRANCE HEATER
ACCESS-PLENUM & FILTER
CONTROLLER
FR 41
FR 40
B
A
POWER PANEL
FR 39

ELEVATION


46'-0" M.B.L.
LIGHTS
DISCONNECT SWITCH
MAGNETIC CONTACTOR
POWER PANEL
CONTROLLER
FAN

SECTION A-A

GENE

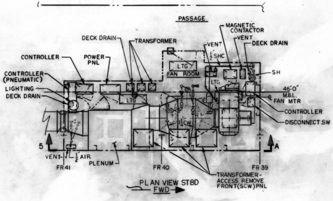
1. ACCESS TO CONTROLS A
SHALL BE VERIFIED WH
RELOCATIONS FOR PROP
FORMS, LADDERS ETC.

NO.	TIT
3	ELEC INSTALLAT
2	PIP MODS 324 & 3
1	VENT ALL DKS M

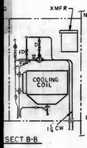
REV	Q div / CONTR CHG NO.	M.A.

241-S16-01-18 A 2

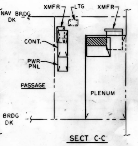
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S16-01-19 GD NO. 30213-88x9 FRAME ① 2 3 4


PASSAGE
MAGNETIC CONTACTOR
DECK DRAIN
TRANSFORMER
VENT
DECK DRAIN
CONTROLLER
POWER PNL
1/2 SHC
LTG
FAN ROOM
SH
CONTROLLER (PNEUMATIC)
LTG
LIGHTING
DECK DRAIN
LTG
46'-0" M.B.L.
FAN MTR
CONTROLLER
1 1/4 CW
DISCONNECT SW
5
A
VENT
1/2 AIR
PLENUM
FR 41
FR 40
FR 39
TRANSFORMER-ACCESS REMOVE FRONT (SCW) PNL
FWD

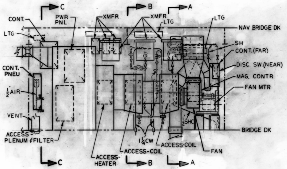
PLAN VIEW STBD


XMFR
NAV BRDG DK
COOLING COIL
BRDG DK
1 1/4 CW

SECT B-B


XMFR
LTG
XMFR
CONT.
PWR PNL
PASSAGE
PLENUM

SECT C-C


C
B
A
CONT.
PWR PNL
XMFR
XMFR
LTG
LTG
LTG
NAV BRIDGE DK
SH
CONT.(FAR)
CONT. PNEU
DISC. SW.(NEAR)
MAG. CONTR
1/2 AIR
FAN MTR
VENT
1/2 SHC
BRIDGE DK
ACCESS-PLENUM & FILTER
1 1/4 CW
ACCESS-COIL
ACCESS-COIL
FAN
ACCESS-HEATER
C
B
A

ELEVATION 5-A

241-S16-01-19 | A | 2

REVISIONS		Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	DWG. APPROVED BY J.J. HENRY YARD REPRESENTATIVE 4/29/71. S.Y. J8	5/5/71	WEJ			5/6/71	

W.A. DWG NO. 241-S16-01-19

GENERAL NOTES

REVISIONS	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		5/7/71			30212	A		800		1
LYKES		1						820		
M.A.(WASH)								826		
M.A.(YARD)								829		
J.J.HENRY(YARD)		1						830		
J.J.HENRY(HOME)		2						841		
ABS								842		
USCG								843		
USPHS								844		
New Orleans LYKES		1						899		
								LIBRARY		
								912		
								814		
871								TPS 866		
J. Stiegler 872		1						DES LIAS		
873										
874										
875										
876										
TOTAL NRO'S FS		6								
TOTAL NRO'S HS										
TOTAL RO								TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

A 11-9-73

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
3	ELEC INSTALLATION MOD 324	30324-613	——
2	PIP MODS 324 & 325	30324-200	——
1	VENT ALL DKS MOD 324 & 325	30324-230	——

REFERENCES

Q div DWG NO.
30213-88x9

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN F.Ma TJ
DSGNR NONE
SUPV J. Scoglio
ENGR W. Clark

FAN ROOM ACCESS & MAINT
FR 39-41 BRIDGE DK STBD

APPROVED DATE
R. J. Bradford
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-01-19	A

SCALE 1/2"=1'-0" SHEET 1 OF 1

APPROVAL LTR DATED
ABS -----
USCG -----
USPHS -----

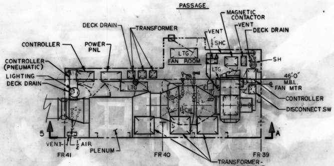
REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

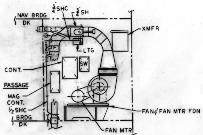
Q div DWG NO. 30213-88x9

AREA = 13 SQ FT

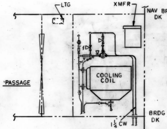
TYPE I/D


PASSAGE
MAGNETIC CONTACTOR
DECK DRAIN
TRANSFORMER
VENT
VENT
DECK DRAIN
CONTROLLER
POWER PNL
$\frac{1}{2}$ SHC
LTG
FAN ROOM
SH
CONTROLLER (PNEUMATIC)
LIGHTING
DECK DRAIN
LTG
LTG
46'-0" M.B.L.
℄ FAN MTR
CONTROLLER
DISCONNECT SW
$1\frac{1}{4}$ CW
5
A
VENT
$\frac{1}{2}$" AIR
PLENUM
FR 41
FR 40
FR 39
TRANSFORMER-ACCESS REMOVE FRONT(SCW)PNL

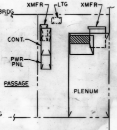
PLAN VIEW STBD
FWD


NAV BRDG DK
$\frac{3}{4}$ SHC
$\frac{3}{4}$ SH
XMFR
LTG
CONT.
SW
PASSAGE
MAG CONT.
$\frac{1}{2}$ SHC
BRDG DK
FAN & FAN MTR FDN
FAN MTR

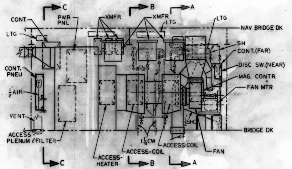
SECT A-A


LTG
XMFR
NAV BRDG DK
PASSAGE
COOLING COIL
$1\frac{1}{4}$ CW
BRDG DK

SECT B-B


XMFR
LTG
XMFR
CONT.
PWR PNL
PASSAGE
PLENUM

SECT C-C

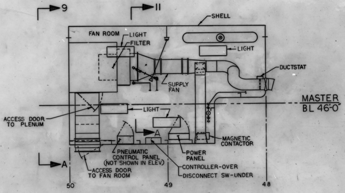

C
B
A
CONT.
PWR PNL
XMFR
XMFR
LTG
LTG
NAV BRIDGE DK
LTG
SH
CONT.(FAR)
CONT. PNEU
DISC. SW.(NEAR)
MAG. CONTR
FAN MTR
$\frac{1}{2}$ AIR
VENT
$\frac{1}{2}$ SHC
BRIDGE DK
ACCESS-PLENUM & FILTER
$1\frac{1}{4}$ CW
ACCESS-COIL
ACCESS-COIL
FAN
ACCESS-HEATER
C
B
A

ELEVATION 5-A

NO.	
3	ELEC INST
2	PIP MODS
1	VENT ALL

241-S16-01-19 | A | 2

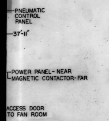
GENERAL DYNAMICS, QUINCY NOV. 1973 8X
MA NO.241-516-01-20 GD NO. 30213-88x10 FRAME ① 2 3 4



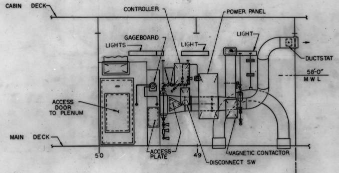
9
11
SHELL
FAN ROOM
LIGHT
FILTER
LIGHT
DUCTSTAT
SUPPLY FAN
MASTER BL 46'-0"
ACCESS DOOR TO PLENUM
LIGHT
A
MAGNETIC CONTACTOR
PNEUMATIC CONTROL PANEL (NOT SHOWN IN ELEV)
POWER PANEL
CONTROLLER-OVER
DISCONNECT SW-UNDER
ACCESS DOOR TO FAN ROOM
A
50
49
48

PLAN MAIN DECK

FWD



PNEUMATIC CONTROL PANEL
37'-11"
POWER PANEL-NEAR
MAGNETIC CONTACTOR-FAR
ACCESS DOOR TO FAN ROOM



CABIN DECK
CONTROLLER
POWER PANEL
GAGEBOARD
LIGHT
LIGHTS
LIGHT
DUCTSTAT
58'-0" MWL
ACCESS DOOR TO PLENUM
MAIN DECK
ACCESS PLATE
MAGNETIC CONTACTOR
DISCONNECT SW
50
49
MASTER FL 48

ELEV.

241-S16-01-20	A	2

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	DWG. APPROVED BY J.J. HENRY YARD REPRESENTATIVE	5/21/71	wel			1 JUN 1971	

REVISIONS	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		6/2/71			30212	A	6-5-1	800		4
LYKES								820		
M.A.(WASH)								826		12
M.A.(YARD)								829		
J.J.HENRY(YARD)								830		7
J.J.HENRY(HOME)								841		
ABS								842		
USCG								843		1
USPHS								844		5
MAIN VAULT		1						899		
								LIBRARY		5
								812		1
								814		1
871								TPS 866		1
872 3 SINGLE		1						LIASON		1
873										
874										
875										
876										
TOTAL NRO'S FS		2								
TOTAL NRO'S HS										
TOTAL RO								TOTAL		38

GENERAL NOTES

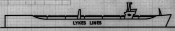
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
A 11-9-73

SEABEE



LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
3	ELEC MOD 406 INDEX OF PLANS	30406-601	—
2	PIPING MOD 406 PLAN & DETAILS	30406-200	—
1	VENT MOD 406 ALL DECKS	30406-231	—

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO. 30213-88X10

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN W.J.C.
DSGNR
SUPV J Swighe
ENGR

FAN ROOM ACCESS & MAINT
FR 48-50 MAIN DECK PORT

APPROVED DATE
R.J. Bradford
FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED
ABS
USCG
USPHS

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-01-20	A

SCALE 1/2" = 1'-0" SHEET 1 OF 1

AREA = 14 SQ FT

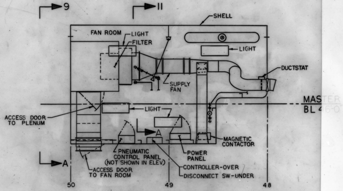
TYPE I/D

M.A. DWG NO. 241-S16-01-20

DWG. NO. 30213-88 X 10

Q div DWG NO. 30213-88 X 10

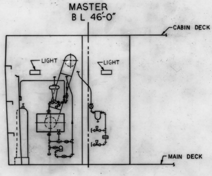
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-516-01-20 GD NO. 30213-88×10 FRAME 1 ② 3 4



9
11
SHELL
FAN ROOM
LIGHT
FILTER
LIGHT
DUCTSTAT
SUPPLY FAN
MASTER BL 46'-0"
ACCESS DOOR TO PLENUM
LIGHT
A
MAGNETIC CONTACTOR
PNEUMATIC CONTROL PANEL (NOT SHOWN IN ELEV)
POWER PANEL
A
ACCESS DOOR TO FAN ROOM
CONTROLLER-OVER
DISCONNECT SW-UNDER
50
49
48

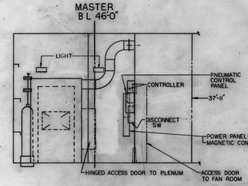
PLAN MAIN DECK

FWD



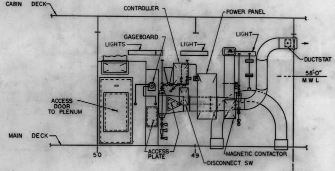
MASTER BL 46'-0"
CABIN DECK
LIGHT
LIGHT
MAIN DECK

SECT. 11-A



MASTER BL 46'-0"
LIGHT
PNEUMATIC CONTROL PANEL
CONTROLLER
37'-11"
DISCONNECT SW
POWER PANEL-NEAR
MAGNETIC CONTACTOR-FAR
HINGED ACCESS DOOR TO PLENUM
ACCESS DOOR TO FAN ROOM

SECT. 9-A



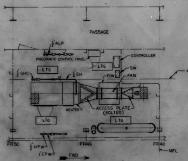
CABIN DECK
CONTROLLER
POWER PANEL
GAGEBOARD
LIGHTS
LIGHT
LIGHT
DUCTSTAT
58'-0" MWL
ACCESS DOOR TO PLENUM
MAIN DECK
50
ACCESS PLATE
49
MAGNETIC CONTACTOR
DISCONNECT SW

ELEV.

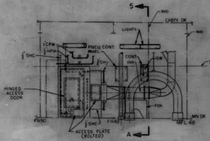
MASTER FL 48

241-S16-01-20 A 2

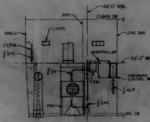
GENERAL DYNAMICS, QUINCY NOV, 1973 10X
MA NO. 241-S16-01-21 GD NO. 30213-88X11 FRAME ① 2 3 4


PASSAGE
½" ALP
PNEUMATIC CONTROL PANEL
CONTROLLER
LTG
LTG
LTG
LTG
½" SHC
¾" SH
SW
FDN
FAN
46'-0" MBL
HEATER
ACCESS PLATE (BOLTED)
FR50
FR49
FR48
MFL
½" HPW
1" CPW
FWD

PLAN VIEW
MN DK - STBD


5
A
BHD
CABIN DK
BHD
LIGHTS
1" CPW
½" HPW
½" SHC
PNEU. CONT. PANEL
¾" SH
CONT
FAN
SW
58'-0" MWL
HINGED ACCESS DOOR
FDN
½" SHC
FR50
FR49
MFL 48
MN DK
ACCESS PLATE (BOLTED)
FWD

ELEVATION LKG INBD


46'-0" MBL
BHD
CABIN DK
SHELL
LIGHTS
LONG. BHD
1" CPW
½" SHC
CONTROLLER
58'-0" MWL
¾" SH
SW
PNEUMATIC CONTROL PANEL
½" ALP
FDN
½" SHC
MN DK

SECTION 5-A

GENERAL NOTES

ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	DWG. APPROVED BY J.J. HENRY YARD REPRESENTATIVE 4/29/71. S.Y.	5/20/71	[illegible]			[illegible]	[illegible]

REVISIONS	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		[illegible]			[illegible]	A		800		
LYKES		1						820		
M.A.(WASH)								826		
M.A.(YARD)								829		
J.J.HENRY(YARD)		1						830		
J.J.HENRY(HOME)		[illegible]						841		
ABS								842		
USCG								843		
USPHS								844		
New Orleans LYKES		1						899		
								LIBRARY		
								[illegible]		
								[illegible]		
871							TPO	[illegible]		
J. Simeon 872		1						[illegible]		
873										
874										
875										
876										
TOTAL NRO'S FS		[illegible]								
NRO'S HS										
RO								TOTAL		

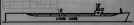
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
A 11-4-73

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
3	ELEC INDEX OF PLANS MOD 407	30407-601	
2	PIPING MOD 407 LWR DK & ABV SECT & EL	30407-200	
1	VENT MODULE 407 ALL DECKS	30407-231	

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO. 30213-88X11

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN [illegible]
DSGNR [illegible]
SUPV [illegible]
ENGR [illegible]
APPROVED DATE R. J. Bradford
FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED
ABS ------
USCG ------
USPHS ------

FAN ROOM ACCESS & MAINT
FR48-50 MAIN DK STBD

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S16-01-21	A

SCALE 1/2" = 1'-0"
SHEET 1 OF 1

AREA = 9½ SQ FT
TYPE I/D

M.A. DWG NO. 241-S16-01-21
DWG. NO. 30213 88X11
Q div DWG NO. 30213-88X11

GENERAL DYNAMICS, QUINCY DEC., 1973 6X
MA NO.241-S19-1-1 GD NO. 30261-01x1 Sheet 1-4 OF 103 FRAME ①2 3 4

1.of 103

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE
LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30261-01x1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR J. HAWES FALLGREN
SUPV
ENGR

PAINTING SCHEDULE

APPROVED DATE 7/15/69
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S19-1-1	S

SCALE
SHEET SEE INDEX SHT 1

APPROVAL LTR DATED
ABS NOT REQD
USCG NOT REQD
USPHS SEPT 5 1969

OWNER APPROVAL LTR DATED AUG. 20, 1969

REV H 99 SHTS
REV P 100 SHTS
REV "G" 93 SHTS
REV F 92 SHTS
REV. D 91 SHTS
REV B 73 SHTS

AREA = 1.5 SQ FT

DWG. NO. 30261-01x1

REVISIONS	O	A	B	C	D	E	F	L	M	N	S
TO		12 22 9	4 2 0	10 6 0	12 8 0	1 8 71	2 5 1	11 17 1	1 6 2	1 31 2	8 15 2
LYKES CRL				1	1	1	1	1	1	1	1
M.A. (WASH.)							1	1	1	1	1
M.A. (YARD)		1	1	1	1	1	1	1	1	1	1
J.J. HENRY (YARD)		1	1	1	1	1	1	1	1	1	1
J.J. HENRY (HOME)				1	1	1	1	2	2	2	2
ABS YD		1	1	1	1	1	1	1	1	1	1
USCG YD		1	1	1	1	1	1	1	1	1	1
USPHS							1	1	1	1	1
Reed 899		1	1								
TPS 866		1	1	1					1	1	1
871		13	13	5	2	7	7	5	4	4	4
872		6	6	2	2	2	2				
873			1	–							
874		1	1	–							
875		1	1	–							
876		2	2	2	1	1	1	–	–	–	
LIA BLDG 108				2	2	2	1	1	1	1	1
TOTAL NRO'S FS		30	30	18	13	18	19		15	15	15
TOTAL NRO'S HS								15			
TOTAL RO											

DON'T THROW OLD SHEETS AWAY. INSERT THESE SHEETS

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	1/8/70	800	1	
30212	B	4-13-0	820	5	
"	C	10-8	826	12	
4 (63)	D	12-11-0	829		
(91)	E	1-11-1	830	7	
92	F	2-25-1	841		
	G	5-13-1	842		
	H	7-20-1	843	4	
(3)	K	10-14-1	844		
(6)	L	11-18-1	899		
	N	1/31/2	LIBRARY	3	
	P	3/6/2	835	12	
	R	7-25-2	840	1	
	S	8-16-2	812	1	
Hom					
			TOTAL	49	

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
C	50		18.19.20

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
C	29		18.19.20
C	8.1		18.19.20
B	25		18,19.20
A	6		18,19,20
O	7	3	18,19,20

(63)

2

SECT.	TITLE	NO. OF SHEETS
A	REFERENCE PLANS	2
B	REVISIONS AND RESERVATIONS	~~2 4 5 7 11~~ 12
C	GENERAL NOTES	~~13 15~~ 16 ✓
D	NUMERICAL LIST OF PRODUCTS	3 ✓
E	PAINT SCHEMES	~~4 7~~ ✓ 8 — REV. S
F	COMPARTMENT PAINTING	~~15 16~~ 17
G	MODULE PAINTING SCHEDULE	~~22 28~~ - ~~33~~ 34
–	COVER & INDEX SHEETS	2 ✓
	TOTAL	~~63 68 74~~ 90 ~~91 92 94~~ 96

MICROFILMED
S 12-13-72

GENERAL DYNAMICS
QUINCY DIV., QUINCY, MASS. J

LYKES - PAINTING SCHEDULE	PLAN NO. 30261-01X1	INDEX	REV S	SHEET 1

PLAN NO. 30261-01X1 3

REFERENCES

NO.	TITLE	CONTR. PLAN NO.	MARAD PLAN NO.	REMARKS
1	SPECIFICATIONS FOR SEA BARGE CLIPPER LYKES BROS. STEAMSHIP CO., INC.			
2.	COMPT & ACCESS - INNERBOTTOM & TOP OF INNERBOTTOM	30211-03X1	S16-1-1	
3.	COMPT & ACCESS - TANKS BELOW LOWER DECKS	30211-03X2	S16-1-2	
4.	COMPT & ACCESS - LOWER DECK & TWEEN DECK	30211-03X3	S16-1-3	
5.	COMPT & ACCESS & GEN ARRANGEMENT MAIN DECK	30211-03X4	S16-1-4	
6.	COMPT & ACCESS & GEN ARRANGEMENT CABIN DECK	30211-03X5	S16-1-5	
7.	COMPT & ACCESS & GEN ARRANGEMENT UPPER DECK	30211-03X6	S16-1-6	
8.	COMPT & ACCESS & GEN ARRANGEMENT FOCSLE, POOP DECK & ABOVE	30211-03X7	S16-1-7	
9.	COMPT & ACCESS INBOARD PROFILE	30211-03X8	S16-1-8	
10.	COMPT & ACCESS OUTBOARD PROFILE	30211-03X9	S16-1-9	
11.				
△A 12.	DECK COVERING SCHEDULE	30491-01X1	S14-1-2	VENDOR SUPPLIED
13.	NAME, INSIGNIA, DRAFT MARKS & BOOT TOPPING	30538-45X01	S14-1-2	
14.	CLARIFICATION NO. C184 AND J.J. HENRY LETTER #5589/S19/AHS-129-69 DATED MAY 13, 1969			
15.	J. J. HENRY LETTER 5589/S19/AHS-132-69 DATED MAY 14, 1969			
16.	CLARIFICATION NO. C195 TEL CONV WITH J. J. HENRY/CONVERY OF JUNE ~~6~~ 4 1969			

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.

LYKES-PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. A	REV. A	SHEET 1

PLAN NO. 30261-01X1 4

REFERENCES

NO.	TITLE	CONTR. PLAN NO.	MARAD PLAN NO.	REMARKS
17.	NOT USED			
18.	U.S. DEPT OF COMMERCE MARAD LTR #QM118/S19/241-243:835.1 OF 9 APRIL 1969.			
△A 19.	J. J. HENRY CO. LTR #5589/S29/RGM-20-69 OF APRIL 11, 1969.			
△A 20.	J. J. HENRY CO. TWX RECEIVED APRIL 22, 1969 (AUTHORIZATION FOR E.B.C. #6).			
△A 21.	J. J. HENRY CO. LTR #5589/S19/AHS-277-69 OF AUGUST 20, 1969.			
△A 22.	U.S.S. DEPT. OF COMMERCE MARAD LTR #QM 1164/S19/241-243:835.1 OF SEPT 15, 1969.			
△A 23.	J. J. HENRY CO. LTR. #5589/S12/AHS-323-69 OF SEPT. 30 1969.			
△B 24.	J. J. HENRY CO., LTR. #5589/S19/AHS-46-70 OF FEB. 5, 1970.			
△B 25.	J. J. HENRY CO., LTR. #5589/S38/WSH/AIR 28-69- OF NOV. 20, 1969.			
△B 26.	J. J. HENRY CO., LTR. #5589/S48/WSH/M-198-69 OF SEPT. 3, 1969.			
△C 27.	LYKES TELECON W/S. THAYER ON JULY 20, 1970.			
△C 28.	MEMORANDUM RACK TO ROLFE - DATED 11 AUGUST 1970.			

GENERAL DYNAMICS
QUINCY DIV., QUINCY, MASS. J

LYKES-PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. A	REV. C	SHEET 2

GENERAL DYNAMICS, QUINCY DEC., 1973 6X
MA NO. 241-319-1-1 GD NO. 30261-01x1 FRAME ① 2 3 4
Sheet 5-8 of 103

REVISION

REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	CONTR.		OWNER		RESERVATIONS
							DATE	APPD	DATE	APPD	
	F	10	23	(74)	PAINT SCHEME CHANGED AND REFERENCE MADE TO GN #4-U.						
		13	5&6	(75)	REMARKS EXPANDED.						
	C	2	GN #3-B GN #3-E	(76)	NOTE MODIFIED TO READ "WHERE ABRASIVE BLASTING OF STEEL IS REQUIRED" ETC. SURFACE PREPARATION FURTHER EXPANDED TO SUIT SPECIFICATIONS.						
		3	GN #3-E		SCHEME "B" BLAST REQUIRED CHANGED FROM SP-10 TO SP-5.						
	G	4	1	(77)	BLAST CHANGED FROM SP-10 TO SP-5.						
		14	8								
	F	7	18,19, 20,22	(78)	REFERENCE TO GENERAL NOTE #5-P ADDED.						
	C	10	GN #5-F	(79)	REFERENCE TO SHT #4 CHANGED TO SHT #7.						
	C	2	GN #3-D	(80)	NOTE EXPANDED TO INCLUDE ADDITIONAL BLASTING INSTRUCTIONS.						
	C	1A	GN #1-G THRU 1-N INCL.	(81)	NEW SHEET ADDED.						
	C	12	GN #8-B	(82)	ADDED.						
A (CONT'D)	D	2		(83)	PRODUCT #27 COLOR DELETED.						
	E	1	6&10	(84)	COAT SYSTEM REVISED.	JBH					
	E	1		(85)	EXPANDED TO SHTS 1 AND NEW SHT 1-A; SCHEME A_3 ADDED.						
	E	4	7	(86)	ADDED GENERAL NOTE 5-C.						
	C	4		(87)	BLAST REQUIREMENTS ADDED FOR SCHEMES "AE","AF","AG","AH", "AJ" AND "AK".						
	C	4		(88)	DESCRIPTION MODIFIED FOR SCH "AH".						
	D	3		(89)	PRODUCT #37 ADDED.						
	F	2	14	(90)	PAINTING MODIFIED.						
	F	2	21,22, 23	(91)	ADDED.		12/19/69				
	C	9	GN #4-V	(92)	ADDED.						
	E E	4 5	13 4,7,10, 13	(93)	PAINT SCHEME REVISED.						
	F	11	21, 22	(94)	ADDED.						
	C	11	GN #6-E	(95)	ADDED.						
	D	1	2	(96)	MFR.# AND DESCRIP. ADDED.						
	E	4	13	(97)	ADDITIONAL COAT #5.						

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS.	LYKES PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. B	REV.	A	SHEET 4

REVISIONS

REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	CONTR.		OWNER		
							DATE	APPD	DATE	APPD	
	C	1	GN 2-C	(24)	"DIPPING" DELETED - SHT RE-TYPED.						
	C	1	GN 2-D	(25)	MODIFIED TO DELETE, "IT SHALL-----PAINTED SURFACE".						
	C	3	GN 3-E	(26)	PAINT SCHEME FOR "R" BROKEN DOWN TO "R_1 AND R_2".						
	E	4	10-12 INCL	(26A)	REF TO GENERAL NOTE 9-B ADDED.						
	C	4	GN 3-E	(27)	BLAST REQ'D FOR SCHEME "Y" CHANGED FROM SP-6 TO SP-5.						
	C	5	GN 4-C	(28)	PAR (3) MODIFIED. SHT RE-TYPED.						
	C	6	GN 4-E	(29)	EXTENT OF DEEP LOAD LINE CHANGED.						
	C	6	GN 4-G	(30)	FINISHED COATS CHANGED FROM, "AS SPECIFIED" TO "PROD #24D".						
	E	2&3	15-17	(31)	SCH. "J" PAINTING FOR ALUMINUM PORTIONS OF ELEV PLATS. CONTINUED ON SHT. #3.						
	C	7	GN-4-J	(32)	MODIFIED ELEV PLAT TO READ, "STEEL PORTIONS OF ELEV PLATS". REVISED LAST SENTENCE OF PAR (2)& INCL'D. WITH GEN. NOTE 4-K						
	E	1-A	13	(33)	CHANGED 2ND COAT FROM PROD #11 TO #23.						
			14	(34)	ADDED NOTE FOR STEEL PORTIONS OF ELEV PLATS AND REFERRED TO SCH "J".						
	C	10	GN 5-J	(35)	MODIFIED BY PREFIXING, "NON-FERRUS & GALV".						
	C	10	GN 5-M	(36)	CHANGED, "SHALL HAVE PRESERVATIVES" TO "SHALL BE COATED".	JBH					
A CONTD.	C	13	GN 9-B 9-C 9-D	(37)	ADDED.		12/19/69				
	C	1	GN 2-E	(38)	EXPANDED TO INCLUDE TINTING OF ALTERNATE COATS.						
	D	1	4,11	(39)	COLOR WAS RED-BROWN.						
	D	1	11B	(40)	"HIGH FLASH" ADDED TO NAME.						
	E	1-A	11,12, 15,	(41)	2ND COAT WAS PROD #23.						
	↓	2	11								
	↓	6	6,7								
	D	3	31	(42)	COLOR WAS "BROWN".						
	E	1-A	13	(43)	MDFT WAS 1.5 MILS FOR 2ND COAT						
	↓	2	1								
	↓	2	4-10	(44)	PAINT SCH. "H" DIVIDED INTO "H_1" AND "H_2"						

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS.	LYKES PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. B	REV	A	SHEET 2

REVISIONS

REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	CONTR		OWNER		
							DATE	APPD	DATE	APPD	
	C	9	GN 4-T	(45)	EXPANDED TO INCLUDE LINES 29-31; SECT 9-2 OF SPECS.						
	E	4	4	(46)	REFERENCE TO GENERAL NOTES #5-G ADDED.						
	E	5	1	(47)	WORD "ALL" ADDED ABOVE FLOOR PLATES.						
	E	5	1	(48)	NOTE ADDED TO, "INCLUDE DECKS IN UPTAKE SPACES".						
	E	5	2	(49)	ADDED GENERAL NOTES 9-B AND 9-C.						
	E	5	4&5	(50)	ADDED GENERAL NOTE 9-C.						
	F	13	6	(51)	EXTENT OF PIPE & DUCT SPACE NOTED.						
	D	2	15	(52)	COLOR WAS "BROWN".						
	D	2	29	(53)	ADDED REFERENCE TO GENERAL NOTE #9-B.						
	E	3	3	(54)	ADDED REFERENCE TO GENERAL NOTE #4-T AND SPEC P. 9-2.						
	E	5	17	(55)	3RD COAT CHGD TO FINAL COAT PROD #19.						
A CONTD	E	6	8	(56)	COATING FOR SKEG INTERIOR ADDED.						
	E	6	10	(57)	COATING FOR PLENUMS, FAN ROOMS ADDED.						
	E	6	9	(58)	SCH. "AH" ADDED.						
	F	2	6,7	(59)	COMPT TILE REVISED TO INCL. "PASSAGE".						
	F	3	19,20	(60)	ADDED.						
	F	3	21,22 23,24, 25	(61)	REMARKS ADDED.	JBH					
	F	10	30	(62)	ADDED.						
	F	10	11,31	(63)	LINE #11 DELETED, INFORMATION ENTERED ON LINE 31.						
	F	1	33	(64)	PAINT SCH. CHGD FROM "R" TO "Q".						
	E	6	12,13	(65)	SCHEME "AK" ADDED.		12/19/69				
	C	9	GN 4-U	(66)	ADDED.						
	F	1	39	(67)	PAINT SCHEME CHANGED.						
	↓	3	25TO32 INCL 37&38	(68)	↓						
	↓	4	37&39	(69)	↓						
	↓	5	23&24,25	(70)	↓						
	↓	6	28&29	(71)	↓						
	↓	7	11&14	(72)	↓						
	F	10	8&9	(73)	PAINT SCHEME CHANGED.						

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS.	LYKES PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. B	REV	A	SHEET 3

REVISIONS

REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	CONTR		OWNER		RESERVATIONS
							DATE	APPD	DATE	APPD	
					PAINTING SCHEDULE REV "O" APPROVED BY DEPT OF PUBLIC HEALTH, EDUCATION AND WELFARE, IN LETTER DATED SEPT 5, 1969 PAINTING SCHEDULE REV "O" APPROVED BY OWNER IN J. J. HENRY, LETTER REFERENCE #21.						1. ~~SECT F; SHT #1; LINE #28&29 PENDING RELEASE OF RES #2 ON REF #3.~~ 2. ~~SECT F; SHT #2; LINE #6 &7 PENDING RELEASE RES #3 ON REF #8.~~ 3. ~~SECT F; SHT #11; LINE #1~~ PENDING ~~SELECTION OF SCHEME DEVEL. FOR PAINTING PLENUM AREA ARRGTS.~~ 4. ~~SECT F; SHT 5, LINES 24 & 25 PENDING RELEASE RES #2 ON REF. #5.~~ 5. ~~BARGE WINCH MACHY RM SECT F; SHT #3; LINE 22 PENDING RELEASE OF RES #4 ON REF #3.~~ 6, SECT. "G" PENDING REVISION. SHEETS #1-12A RELEASED MAR 11, 1970 BY REV. "B" ITEM #36.
	A	2	19,20	(1)	REFS. #19 & 20 ADDED						
	C	3	⌐	(2)	SCHEME "Q" MODIFIED						
	E	4	1,8	(3)	SCHEMES "M" AND "Q" MODIFIED						
	F	1	28,29	(4)	PAINT SCH. CHGD, FROM "M" TO "Q"						
	G	4	9	(5)	↓						
	G	8	5	(6)	↓						
	G	8	4	(7)	ADDED FOR STABILIZER DUCT.						
A	C	3	⌐	(8)	SCHEME "U" BLAST REQ'D. WAS SP-10						
	C	3	⌐	(9)	~~" "R" " " " SP-6~~ (SEE ITEM #26 BELOW)						
	G	2	7	(10)	SURFACE PREP FOR SCH "W" REVISED						
		2	10	(11)	"S"						
		3	1	(12)	"S"						
		3	5	(13)	"W"						
		4	1	(14)	"W"	JBH	12/19/69				
		4	5,7	(15)	"G"						
		6	4	(16)	"O"						
		10	4,5	(17)	"W"						
		18	1	(18)	"E" ADDED						
		20	8,9	(19)	"I" & "AB" REVISED						
		14	4	(20)	"Z" "						
	C	10A		(21)	GENERAL NOTE 5-S AND NEW SHT #10A ADDED						
	F	11	1	(22)	PAINT SCHEME ADDED. RES. #3 MODIFIED						
		3	25	(23)	PAINT SCH. FOR BHD/OVHD. CHANGED FROM "Y" TO "W"						
		4	39								
		5	1,8,9, 28,29								
		7	23								

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS.	H. B. J.	LYKES-PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. B	REV	C	SHEET 1

REVISIONS

REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	CONTR. DATE	CONTR. APPD	OWNER DATE	OWNER APPD	RESERVATIONS
C	F	1	28,29	1	COMPT TITLE REVISED AND REMARKS ADDED. RES #1 REMOVED.	J.B.H.	9/29/70	T.S. Dall	25 SEP 70		
	F	1	39	2	DECK PAINT REVISED.						
	F	1	38	3	PAINT SCHEME CORRECTED.						
	F	2	6&7	4	RES #3 REMOVED.						
	F	2	16 &17	5	LOCATION CHANGED.						
	F	2	18 &19	6	COMPT TITLE AND LOCATION CHANGED.						
	F	2	29	7	COMPT TITLE CHANGED.						
	F	2	35	8	ADDED.						
	F	3	10	9	ADDED.						
	F	3	18	10	CANCELLED.						
	F	3	19,20, 21,23, 24	11	COMPT TITLE CHANGED.						
	F	3	25	12	CANCELLED.						
	F	3	36	13	TITLE OF SPACE AND PAINT SCHEME CHGD.						
	F	5	24 &33	14	DELETED LINE #5 & ADDED LINE #33. RES #4 RELEASED						
	F	5	32	15	COMPT TITLE & REMARKS REVISED.						
	F	5	36	16	ADDED.						
	F	6	1,2	17	COMPT TITLE REVISED						
	F	7	6	18	DK SCH CHGD FROM "Z"						
	F	7	9,14	19	LINE 9 ADDED AND LINE 14 CANCELLED						
	F	7	19	20	SCHEMES CHGD FROM "AE"						
	F	9	12 - 15 INCL.	21	COMPT TITLE REVISED						
	F	9	33,37	22	CANCELLED						
	C	6	13	23	GENERAL NOTE #4E REVISED						
	F	10	7&14	24	CANCELLED.						
	F	10	12,15	25	COMPT TITLE REVISED.						
	F	10	19,20	26	CANCELLED.						
	F	10	33,37, 39,40	27	ADDED.						
	F	11	3	28	ADDED.						
	F	11	27,28	29	CANCELLED.						
	F	11	23	30	COMPT. TITLE REVISED.						

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS.
LYKES - PAINTING SCHEDULE
PLAN NO. 30261-01X1
SECT. B
REV C
SHEET 8

REVISIONS

REV.	SECT. NO.	SHEET NO.	LINE NO.	DESCRIPTION	BY	CONTR. DATE	CONTR. APPD	OWNER DATE	OWNER APPD	RESERVATIONS
B				1. PAINTING SCHEDULE REV "A" APPROVED BY J. J. HENRY LETTER REF #24, SUBJECT TO FOLLOWING ITEMS #1-15 INCL.+43	JBH	3/24/70	CHK	27 MAR 1970		
	A	2	24	2. REFERENCE #24 ADDED.						
	C	10-A	4	3. THE WORD "DECKS" CHANGED TO"DECKHEADS".						
	C	11	12,13	4. TYPE OF INSULATING TAPE ADDED TO GENL NOTE #6-D.						
	C	12	42,43	5. PROD #37 ADDED FOR COLOR BAND.						
	D.	1	-	6. PROD #11-B REMARKS ADDED.						
	E	6	13,14	7. ADDED INACCESSIBLE VOIDS IN ENDS OF ELEV BOX GIRDER.						
	F	1	3	8. ADDED SCHEME "R", TO BHDS/OVHD.						
	F	1	29	9. COMPARTMENT NAME AND PAINT SCHEMES CHANGED.						
	F	3	31,32	10. SCHEME FOR DECK CHANGED FROM "R_1 & R_2" TO "S".						
	F	9	34	11. ADDED.						
B	F	10	21,22	12. CANCELLED, SEE ITEM #14.						
	E	5	13	13. COMPT SURFACES & REMARKS, ADDED "THEREIN" AFTER VENT DUCTS.						
	F	10	35.36	14. ADDED, IN LIEU OF LINES 21 & 22.						
	C	9	19	15. STRUCT. FOR ELEVATOR BOX GIRDER CHANGED TO SCH "M".						
	F	10	23							
	C	10-A	15,16	16. GENL. NOTE #5-V ADDED.						
	E	4	10,13	17. ABBREVIATION FOR MAT'L CORRECTED.						
	F	2	24,25 27 TO32	18. ADDED.						
	F	3	14,36	19. ADDED.						
	F	5	2 TO 5	20. SCHEME FOR DECK CHGD FROM "Z" TO TILE (REF #12).						
	F	5	31,32	21. COMPT NAME MODIFIED.						
	F	5	34	22. ADDED.						
	F	6	2	23. ADDED.						
	F	7	29,30	24. COMPT NAME MODIFIED.						
	F	10	12	25. COMPT NAME MODIFIED.						
	F	10	34	26. ADDED.						
	F	11	23	27. ADDED.						
	F	11	38,39	28. DECK CHANGED FROM "E" TO DK TILE REFERENCE #12.						
	F	12	15	29. DECK CHANGED FROM "Z" TO "E".						
	F	12	16	30. REFERENCE TO GENL NOTE #5-S ADDED. SCHEMES CHANGED FROM "F" TO "AJ" FOR BHD & OVHD & "E" FOR DK.						

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS.
LYKES-PAINTING SCHEDULE
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SECT. B
REV. B
SHEET 6

REVISIONS

REV.	SECT. NO.	SHEET NO.	LINE NO.	DESCRIPTION	BY	CONTR. DATE	CONTR. APPD	OWNER DATE	OWNER APPD	RESERVATIONS
B (CONTD)	F	13	-	31. TITLE FOR SHEET CHANGED FROM FOCLE DK & FLATS TO FOCLE DK AND LEVELS.	JBH	3/24/70	CHK	27 MAR 70		
	F	13	3,4,7, 8,10,11, 12,13,15, 16,17	32. UNDER REMARKS, "LEVELS" ADDED.						
	F	13	9	33. ADDED.						
	F	13	18,19	34. COMPT TITLE REVISED.						
	F	14	31	35. UNDER REMARKS, "GENL NOTE #5-S" ADDED.						
	G	1 TO12A	-	36. REVISED AND NEW SHEETS ADDED. RES. #6 RELEASED IN PART						
	C	14	-	37. GENL NOTE #10 ADDED.						
	C	14	-	38. GENL NOTE #11 ADDED.						
	A	2	-	39. REFERENCE #25 ADDED.						
	C	11	33,42	40. GENL NOTE #7-C ADDED.						
	E	4	11	41. REFERENCE TO GENL NOTE 7-C ADDED.						
	A	2	-	42. REFERENCE #26 ADDED.						
	C	10		43. GENL NOTE #5K MODIFIED.						

SOURCE:

ITEMS #16-19; 21-27; 29-37 DESIGN DEVELOPMENT
ITEMS #20 & 28 TO SUIT REFERENCE #12.
ITEM #38 & 39 TO SUIT REFERENCE #25.
ITEM #40, 41, 42 TO SUIT REFERENCE #26. C.O. #25.
ITEM #43 TO SUIT CONF. REPORT OF 19, 20 FEB. 1970.

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS.
LYKES - PAINTING SCHEDULE
PLAN NO. 30261-01X1
SECT. B
REV. B
SHEET 7

REVISIONS

REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	CONTR. DATE	CONTR. APPD	OWNER DATE	OWNER APPD	RESERVATIONS
A (CONT'D)	F	1	3	98	REVISED BHD/OVHD. R_1 TO R_2.	JBH	12/19/69				
	F	3	22	99	COMPT. TITLE REVISED AND RESERVED.						
	F	3	39,40	100	COMPT. TITLE REVISED AND PAINTING FOR DK. CHGD. FROM TILE TO "Z".						
	F	4	38	101	COMPT. TITLE REVISED.						
	F	6	1	102	DECK PAINTING WAS "Z" - DES. DEVEL.						
	F	8	23								
	F	12	15	103	DECK PAINTING WAS "E", REMARKS ADDED.						
	F	14	31	104	BHD/OVHD PAINTING WAS "W"						
	F	11	26	105	COMPT. TITLE CHANGED; REMARKS MODIFIED.						
	F	11	24	106	REMARKS MODIFIED.						
	E	2	12	107	"MOORING WINCHES" ADDED TO COMPT. SURFACES						

SOURCE:

ITEMS #1 TO 7 INCL. TO SUIT REF. #19 & 20 CHG. ORDER #6.

ITEMS #8 TO 20 INCL., 59-75 INCL. 87-91 INCL., AND 95, 96 AND 98 TO 106 INCL TO SUIT DESIGN DEVELOPMENT.

ITEMS #21 TO 47 INCL., 49-55 INCL., 57-58 AND 65-75 INCL. AND 107 TO SUIT REF. #21

ITEM #48 TO SUIT CONFERENCE WITH OWNERS SEPT. 15, 1969.

ITEM #56 TO SUIT SPECS.

ITEM #76 TO 86 TO SUIT REF. #22.

ITEM #92 TO SUIT REF. #23.

ITEM #93, 97 TO SUIT REFS. #21 & 22.

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SECT. B
REV. A
SHEET 5

GENERAL DYNAMICS, QUINCY DEC., 1973 6X
MA NO.241-519-1-1 GD NO. 30261-01x1 Sheet 9-12 of 103 FRAME ① 2 3 4

GENERAL DYNAMICS, QUINCY DEC., 1973 6X
MA NO.241-519-1-1 GD NO. 30261-01×1 FRAME ① 2 3 4
Sheets 13-16 of 103

REVISIONS

REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	CONTR. DATE	CONTR. APPD	OWNER DATE	OWNER APPD
F	B	12	—	1	ADDED		1/27/71			
	C	4	GN 3-E	2	SCHEME "AN" ADDED					
	C	11	GN 7-C	3	GEN NOTE 7-C, LINE 2 - "FOUR" CHGD TO "FRWD"					
	C	1-A	GN 1-P	4	GEN NOTE #1-P ADDED					
	D	3	—	5	PRODUCT NO. 43 ADDED					
	E	1-A	11,12 & 15	6	ABBREVIATION FOR 2ND COAT CHGD FROM "S.P." TO "M.P."					
	E	1-A	1,2 &3	7	PAINT SCHEME "AN" ADDED					
	E	2	11,15	8	ABBREVIATION FOR 2ND COAT CHGD FROM "S.P." TO "M.P."					
	F	1	20	9	COMPT TITLE CHGD FROM "FUEL OIL TANK NO. 6" TO "FUEL OIL SETTLING TANK"					
	F	2	18 & 19	10	COMPT TITLE CHGD FROM "UNASSIGNED" TO "COFFERDAM"					
	F	3	12 & 13	11	ADDED					
	F	10	35 &36	12	COMPT TITLE CHGD FROM "UNASSIGNED" TO "ESCAPE PASSAGE"					
	C	1	GN 2-C	13	GEN NOTE 2-C AMENDED					
	B	1		14	RES. NO. 5 DELETED					
	F	3	6	15	REMARKS REVISED	AJV				
	F	3	22	16	COMPT. ADDED, PART OF REMARKS & RES. NO. 5 DELETED					
					SOURCE: ITEM 6 & 8 INCORP. AEA NO. S-0334 ITEMS 2, 5 & 7 INCORP. AEA NO. S-0346 ITEM 3 INCORP. AEA S-0348 ITEM 4 INCORP. AEA S-0362 ITEM 9 TO SUIT I.W.W. IRM DATED 1-19-71 ITEM 10, 11, 12 TO SUIT J.J. HENRY YARD REPRESENTATIVE ITEM 13 DES DEV W. THOMAS REQUEST ON 1/21/71 ITEMS 14, 15 & 16 DES. DEV.					
G				1	REV. "F" APPROVED BY J.J. HENRY YARD REPRESENTATIVE BY IRM DATED 3/16/71					
	E	6	5	2	FIRST COAT CHGD. TO PRODUCT #11-MATL. P.E.P.					
	F	12A		3	ADDED "STACK PROFILE PAINT INDICATION					
	F	12B		4	ADDED ELEV STRUCT & PLATF PAINTING INDICATION					
	F	2	13	5	ITEM MODIFIED.					
	C	1A	35	6	GEN. NOTE "P" ADDED TO.					
					SOURCE: ITEM 2 - INCORPORATES AEA #S-0475 ITEMS 3 & 4 DES. DEV.					
	D	3	44	7	PRODUCT NO. 44 ADDED					
	E	1A	3	8	4TH COAT ADDED					
				9	ITEMS 7 & 8 MADE TO SUIT I. WILLIAMS MEMO FILE NO.: - 320A-OPEC-04041-2 DATED 4/4/71		5/6/71	cd.	5/11/71	

GENERAL DYNAMICS
QUINCY DIVISION - QUINCY, MASS.
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PLAN NO.: 30261-01X1
SECT. B
REV G
SHEET 12

REVISIONS

REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	CONTR. DATE	CONTR. APPD	OWNER DATE	OWNER APPD
C CONTD.	F	3	16,17	61	LINE 16 ADDED AND LINE 17 CANCELLED.					
	F	7	33,34, 35,36	62	"CRES SHEATHING" ADDED.					
	F	9	1,2	63	SCHEMES FOR BHD/OVHD & DECK ADDED.					
	F	12A	—	64	SHEET 12A ADDED.					
	G	8	4&5	65	"VOID" FRS 67-70 ADDED.					
	G	11A	8&9							
	C	10	37	66	GENERAL NOTE #5-K MODIFIED.					
	F	2	22	67	COMPT TITLE REVISED.					
	F	2	33,37	68	ADDED.					
	F	3	6	69	ADDED.					
	F	13	18	70	PAINT SCH FOR BHD/OVHD AND DK WAS "N".					
	G	1	3	71	PAINT SCH ADDED FOR BHD/OVHD IN DISTILLED WATER TANK.					
	G	12	4	72	MODULE NUMBER CORRECTED FROM 501 TO 506.		approved see sheet 8			
	E	4	6,16	73	PAINT SCHEME "O" ~~DIVIDED INTO "O$_1$ + O$_2$".~~ REVISED. (SHEET RETYPED)	JBH				
	D	1	—	74	PRODUCT #10 CHANGED, WAS KOPPERS BIT. #28,					
	D	2	—	75	PRODUCT #18 ADDED AND #21 AND 21A MFR NAME & NO. CHGD. AND REFERENCE #28 ADDED.					
		—	—	76	REVISION "B" APPROVED BY DEPT HEALTH, EDUCATDN & WELFARE (PUBLIC HEALTH) LETTER DATED MAY 26, 1970.					
	~~E~~	~~2~~	~~6,9~~	~~77~~	~~SECOND COAT WAS PROD #18 AND THIRD COAT WAS PROD #33.~~					
	F	2	22	78	PAINT SCHEME FOR DECK CHANGED FROM "Z" TO "AM".					
	D	3	—	79	PRODUCT #41 ADDED. (FOR SOURCE SEE SHT #11)					

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LYKES - PAINTING SCHEDULE
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SECT. B
REV C
SHEET 10

REVISIONS

RESERVATIONS

REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	CONTR. DATE	CONTR. APPD	OWNER DATE	OWNER APPD
C CONTD					SOURCE: ITEMS #1-4 INCL., 7, 8, 9, 11-22; 24-33 INCL. 35, 36, 37, 45, 49, 50, 52, 53, 57 & 58, 60-72 INCL. TO SUIT DESIGN DEVELOPMENTS. ITEM #41, 46 RELEASES ANDC #S-0323 ITEM #47 TO SUIT C.C. #50 AND RELEASES ANDC #S-0322 ITEM #48 TO SUIT C.C. #29. ITEMS 5,6, 10, 34 TO SUIT CC. #8.1 ITEMS #23 & 26 RELEASES AEA #S-0106. ITEMS #38, 39, 40 & 51 TO SUIT REFERENCE #27 AND RELEASES AEA #S-0135. ITEMS #42, 43, 44; 54, 55, 56, 59 TO SUIT J.J. HENRY/W. THOMAS. MEMO OF JULY 10, 1970. ITEM #73 TO SUIT YARD REQUEST 8/17/70 AND AS APPROVED BY J.J. HENRY - MEMO 9/14/70. ITEM #74-75 TO SUIT YARD REQUEST, SEE REFERENCE #28 AND J.J. HENRY MEMO 9/14/70. ITEM #78, 79 TO SUIT CHANGE OF PLATING FROM DIAMONDETTE TO FLAT PLATE.	JBH	appd see sheet 8			
D	E	2	6&9	1	MIL THICKNESS FOR 2ND & 3RD COATS CORRECTED TO SUIT SPECS.					
	E	6	16	2	ADDED IN REV "C", BUT NOT LISTED.					
	F	2	15	3	FRS. CHANGED.					
		2	22	4	~~DK. WAS "Z"~~ (SEE ITEM #78 REV "C")					
		2	36,38	5	ADDED.					
	G	4	1	6	INACCESSIBLE SPACE IN WAY OF STERN GATE ADDED.	JBH	11/23/70			
		5	1&2	7						
		6B	1&2	8						
	D	3		9	PRODUCT #41 ADDED.					
					SOURCE: ITEM #1 DES. DEVELOPMENT. ~~RELEASES~~ INCORP. AEA #S-0233. ITEM #3,5,6,7,8 & 9 DESIGN DEVELOPMENT. ITEM #2 & 4 TO SUIT CHG. IN DK. PLTG.				23 NOV 1970	WLH
E	C	13		1	GEN NOTE 9-D MOD AS FOLLOWS: AFTER "APPROVED GALVANIZING REPAIR COMPOUND," ADDED "2 COAT INTERGARD #4441"	RS	1-4-71		4 JAN 1971	WLH
	D	3		2	ITEM 42 ADDED SOURCE: ITEMS 1 & 2 INCORP. AEA S-0302					

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS.
LYKES - PAINTING SCHEDULE
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SECT. B
REV. E
SHEET 11

REVISIONS

RESERVATIONS

REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	CONTR. DATE	CONTR. APPD	OWNER DATE	OWNER APPD
C CONTD.	F	12	1,16	31	COMPT TITLE REVISED.					
	F	12	13,14	32	CANCELLED.					
	F	12	21,22	33	ADDED.					
	F	12	33,34	34	ADDED					
	F	13	1	35	PAINT SCH FOR BHD/OVHD WAS "F"					
	F	13	18	36	PAINT SCH FOR BHD/OVHD WAS "N" & DK WAS "N."					
	G	13 TO 20	—	37	NEW SHEETS ADDED AND RES #6 RELEASED.					
	D	3	—	38	PRODUCT #38 & 40 ADDED.					
	E	1	3,4	39	PAINT SCHEME FOR FLAT PLATE KEEL ADDED.					
	A	2	—	40	REF #27, 28 ADDED.					
	F	5	1	41	COMPT TITLE CHGD FROM FAN RM TO PASS. (RELEASES ANDC #S-0323 IN PART. SEE ITEM #46.)					
	F	4	39							
	F	2	24,25, 26,27	42	BHD & OVHD (STRUCT) CHGD FROM "W" TO "R$_2$" AND E.M. BHDS FROM SCH "AA" TO "AL".					
	F	2	25,28	43	BHD & OVHD (EXP-MTL) CHGD FROM "AA" TO "AL".					
	E	6	15	44	ADDED SCH "AL".	J.BH.				
	F	11	1	45	RES #3 RELEASED.					
	F	11	5,6	46	ADDED. (RELEASES ANDC #S-0323.)		approved See sheet 8			
	F	2	20	47	ADDED.					
	F	3	11	48	ADDED.					
	C	4	—	49	SCHEME "Y" REFERENCE ADDED UNDER REMARKS. SCHEME "AE" BLAST REQUIRED CHANGED FROM SP-5 TO SP-6 TO SUIT PROD. #34.					
	B	1	—	50	RESERVATIONS #1, 2, 3, 4 AND 6 RELEASED.					
	C	9	34	51	GENERAL NOTE #4W ADDED.					
	C	10A	16	52	GENERAL NOTE #5U & 5X ADDED.					
	C	14	20	53	GENERAL NOTE #12A ADDED.					
	D	3	—	54	PRODUCT #39 ADDED.					
	E	4	8&9	55	SCHEME "Q" REVISED.					
	E	1A	11	56	NOTE ADDED REFERRING TO GENERAL NOTE 4-E.					
	E	2	14	57	NOTE ADDED FOR WALKWAY GRATINGS.					
	E	5	14	58	CRES SHEATHING ADDED TO SCHEME "Y".					
	E	5	17	59	NOTE ADDED TO SCH "AA".					
	F	3	15,20	60	LINE 15 ADDED AND LINE 20 CANCELLED.					

GENERAL DYNAMICS
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SECT. B
REV. C
SHEET 9

REVISIONS							CONTR		OWNER		RESERVATIONS
REV.	SECT. No	SHEET No	LINE No	ITEM No.	DESCRIPTION	BY	DATE	APPD	DATE	APPD	
M.	C	12		1.	GEN NOTE 9-A REV	WFC					
	C	13			GEN NOTE 9-B LINE 7 REV						
	E	5	2		CHG 9-A TO 9-B						
	E	5	5		CHG 9-B TO 9-A						
	C	12		2.	GEN NOTE 8-E ADDED						
	C	14		3	GEN NOTE #15 ADDED						
	F	2	39	4.	LINE 39 ADDED SOURCE: ITEM #1 AEA S-1009-LKS 2 AEA S-0996-LKS 3 AEA S-0936-LKS 4 AEA S-0929-LKS		12/21/71		5 JAN 1972		
N	E	6	11	1	LINE 11 ADDED. SOURCE: AEA # S-1068-LKS	A.I.V	1/31/72		—		
P	C	11	-	1	REVISED GEN NOTE 7-C. SOURCE: AEA# S-1207 LYKES.	JK	3/3/72				
Q	C	11-A		1	ADDED.	VDG	7/18/72		—		
	C	11-A		2	ITEM 7-D ADDED. SOURCE: ITEMS 1&2 INCORPS. AEA-#S-1360 LYKES.						
R	C	9		1	GEN NOTE 4U-2 ADDED.	VDG	7/24/72				
	C	13		2	GEN NOTE 9E ADDED. SOURCE: ITEM #1 INCORP. AEA-S-1263. ITEM #2 INCORP. AEA-S-1284.						
S	INDEX	1		1.	SECT. E PAINT SCHEMES NO. OF SHTS CHG'D FROM 7 TO 8	T.Z.					
	B	12-E		2.	ADDED.						
	C	8	23	3.	GEN. NOTE 4M REVISED.						
	C	10	15	4.	GEN. NOTE 5D VERMICULITE REVISED.						
	D	3	45&46	5.	PRODUCT NO. 45 & 46 ADDED.						
	D	3	47	6.	LINE No. 47 ADDED.						
	E	1	17	7.	LINE No. 17 ADDED.						
	E	1-A	13	8	3RD COAT REVISED.						
	E	2	1	9.	3RD COAT REVISED.						
	E	4	1&2	10.	DELETED CHAIN LKR & CHAIN LKR SUMP.						
	E	5-A		11.	ADDED.						

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS.	LYKES PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT B	REV S	SHEET 12-D

REVISIONS							CONTR		OWNER		RESERVATIONS
REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	DATE	APPD	DATE	APPD	
	E	6	1	28	GEN NOTE 4-X ADDED.						
		6	4	29	GEN NOTE 4-G & 4-U ADDED.						
		6	6	30	GEN NOTE 4-K ADDED.						
		6	10	31	GEN NOTE 4-K ADDED.						
		6	12	32	GEN NOTE 4-G & 4-U ADDED.						
		6	17	33	SCHEME "AP" ADDED.						
	F	5	16 &17	34	"& JOINER WORK ELSEWHERE" DELETED.						
		8	21	35	SCHEME W ADDED.						
H CONT'D.		11	1	36	COMPT TITLE REVISED FROM "PLENUM TO "FAN ROOM"						
		11	26	37	COMPT. TITLE REVISED FROM "BOSN LKR" TO "SPECIAL CARGO LKR"						
		12	15	38	SCHEME FOR BHD/OVHD CORR FROM "F" TO "W" & GEN NOTE 5-M ADDED.						
		12	33 &34	39	COMPT TITLE REVISED "ELEVATOR SECURING STA &" DELETED.						
		12B		40	SCHEME "D" FOR TOP OF POST EXTERIOR REVISED TO SCHEME "F".	ael					
					SOURCE ITEMS 1, 35 & 38 DES CORR. ITEMS 2-6 INCL, 10-16 INCL, 18-34 INCL TO CLARIFY SPEC REQUIREMENT ITEM 7 INCORP AEA-S-0542 ITEM 8 INCORP AEA-S0547 ITEM 9 INCORP AEA-S0535 ITEM 17 INCORPS AEA-S0545 ITEM 36 TO SUIT I.R.M. #S-07-0363, JUNE 7, 1971 ITEM 37 PER TELECON I.W.W. GEN DYN, W. THOMAS J.J. HENRY YD REP, & R. CAMPBELL LYKES YARD REP, JUNE 10, 1971. ITEM 39 TO SUIT I.R.M. #S-07-0363 JUNE 7, 1971 ITEM 40 REL ANDC #S-0887.		6/28/71		15 JUL 1971		

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS.	LYKES - PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. B	REV H	SHEET 12B

REVISIONS							CONTR		OWNER		RESERVATIONS
REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	DATE	APPD	DATE	APPD	
					PLAN REV "H" APPROVED BY YARD J.J. HENRY REP. IRM S-07-0386 DATED JULY 13, 1971.						
J	C	5	31	1	2ND SENTENCE OF PARAGRAPH 4C REVISED.	VDG					
	C	5	46	2	ITEM 4-C, NEW PARAGRAPH ADDED.						
	C	12		3	GEN NOTES 8-C & 8-D ADDED.						
	C	9		4	GEN NOTE 4-Z ADDED.						
	C	9-A		5	ADDED.						
	F	12-C		6	ADDED.						
	B	12-C		7	ADDED.						
					SOURCE: ITEMS 1 & 2 INCORP AEA #S-0612 ITEM 3 INCORP AEA #S-0684 ITEMS 4 & 5 INCORP AEA #S-0566 ITEM 6 TO SUIT YARD REQUEST ITEM 7 DESIGN DEVELOPMENT		9/3/71		APP'D. ON AEA'S		
K	C	14	33,34	1	ADDED. SOURCE: ITEM #1 INCORP AEA #S-0697.	VDG	10/18/71		APP'D. ON AEA		
L	C	14	35	1	ADDED	JED	11/8/71		11/17/71	WDT	
	F	7	21	2	BHD SCHEME REVISED.						
	F	12	15	3	DK SCHEME CHGD FROM "E" TO "Z"						
	F	12	33&34	4	BHD SCHEME CHGD FROM "F" TO "W" & DK. SCHEME CHGD FROM "E" TO "Z". SOURCE: ITEM 1 INCORP AEA S-0898 ITEM 2 ↓ ↓ S-0906 ITEM 3&4 ↓ ↓ S-0915						

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REVISIONS							CONTR		OWNER		RESERVATIONS
REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	DATE	APPD	DATE	APPD	
					PLAN REV. G APPROVED BY J.J. HENRY YD REP IRM #S14-0804 DATED MAY 11, 1971.						
	C	1-A		1	GEN NOTE NUMBER CORRECTED FROM 1 TO 2.						
		4		2	SCHEME "AP" & "AR" ADDED.						
		4-A		3	ADDED.						
		8		4	GEN NOTE 4-K REVISED.						
		9		5	GEN NOTE 4-R & 4-U REVISED.						
		9		6	GEN NOTE 4-X & 4-Y ADDED.						
		10-A		7	GEN NOTE 5-Z ADDED.						
		14		8	GEN NOTES 10-A, 10-B & 10-C MODIFIED & GEN NOTE 10-D ADDED.						
	D	1	1	9	REVISED.						
	E	1	2	10	GEN NOTE 2-F ADDED.	ael					
		1-A	13	11	GEN NOTE 4-K ADDED.						
		1-A	15	12	GEN NOTE 4-J ADDED.						
H		1-A	16	13	GEN NOTE 4-K ADDED.						
		2	1	14	GEN NOTES 4-J & 4-K ADDED.						
		2	4	15	IN COMPT. SURFACES & REMARKS COL "AND OVERHEADS" DELETED & GEN NOTE 4-K ADDED.						
		2	6	16	GEN NOTE 4-J ADDED.						
		2	9 &14	17	REVISED.						
		2	15 &16	18	IN COMPT SURFACES & REMARKS COL. "WHERE NATURAL FINISH IS NOT APPROVED AS FINAL" DELETED.						
		2	16	19	GEN NOTE 10-A ADDED.						
		3	1	20	GEN NOTE 4-U ADDED & FOR COATINGS SEE SHT #2 LINE #15 & 16.						
		4	14	21	"SMOKE PIPE INDICATOR EXTERIOR" ADDED AFTER WORD "STRAINERS" AND NOTE FOR INTERIOR COATING ADDED.						
		4	16 &17	22	SCHEMES "AR" & "AS" ADDED.						
		5	1	23	GEN NOTE 8-A ADDED.						
		5	2	24	GEN NOTE 9-A ADDED.						
		5	3	25	GEN NOTE 9-B ADDED.						
		5	5	26	GEN NOTE 9-B ADDED.						
		5	6	27	GEN NOTES 8-A & 8-B ADDED.						

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GENERAL NOTES

3. SURFACE PREPARATION

A

A. PRIOR TO THE APPLICATION OF COATING MATERIALS, ALL SURFACES SHALL BE FREE FROM FOREIGN MATTER SUCH AS: CRAYON MARKS, DIRT, DUST, GREASE, HEAT AND MILL SCALE, OIL, RESIDUAL ABRASIVE FROM BLASTING, RUST, SALT DEPOSITS, WELD SPATTER, LIQUIDS AND ETC., FOR ~~THE, FOLLOWING~~ METAL SURFACES REQUIRED TO BE PAINTED, OR WHERE PAINTING IS PERMITTED IN ORDER TO AVOID MASKING, THE FOLLOWING SURFACE PREPARATION AND PRETREATMENT SHALL APPLY:

ALUM., BRASS, BRONZE, COPPER, STAIN. STL. & GALV.

(1) CLEAN ALL SURFACES BY SOLVENT WIPING.
(2) APPLY ONE (1) COAT OF MIL-P-15328 WASH PRIMER.
(3) WHERE THE ITEM OR SURFACE TO BE CLEANED CONTAINS CREVICES WHICH COULD RETAIN HARMFULL ACIDS OR SALTS, SOLVENT CLEANING, FOLLOWED BY THE APPLICATION OF PRETREATMENT (WASH) PRIMER, OR OTHER ACCEPTABLE PRIMERS, SHALL BE EMPLOYED. CARE SHOULD BE EXERCISED IN APPLYING WASH PRIMER IN INTERIOR OR CONFINED AREAS.

B. WHERE ABRASIVE BLASTING OF STEEL IS REQUIRED, HEREIN, IT SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECS. OF THE STEEL STRUCTURES PAINTING COUNCIL:

SP-10	"NEAR WHITE" BLASTING
SP-6	"COMMERICAL" BLASTING
SP-5	"WHITE METAL" BLASTING

SECTION G, OF THIS PLAN, "MODULE PAINTING SCHEDULE" STATES WHAT GRADE OF SURFACE BLASTING IS REQUIRED, ACCORDING TO THE PRODUCT TYPE USED TO COVER BARE STEEL, FOR BOTH EXTERIOR AND INTERIOR SURFACES.

C. ADDITIONAL INFORMATION RELATIVE TO SURFACE PREPARATION AND PAINTING OF THE INDIVIDUAL MODULES IS SHOWN ON THE VARIOUS TITLE SHEETS FOR STRUCTURAL PLANS OF MODULES.

A

D. AFTER PICKLING OR ABRASIVE BLASTING, CLEARANCE SHALL BE OBTAINED FROM THE OWNER'S AND/OR PAINT MANUFACTURER'S REPRESENTATIVE PRIOR TO APPLICATION OF COATING MATERIALS. ACCEPTANCE OF PAINTING SHALL BE BY OWNER'S REPRESENTATIVE ON A CHECK-OFF LIST AS THE CONTRACTOR PRESENTS EACH SURFACE OR SPACE FOR INSPECTION.

WHERE BLASTING IS PERFORMED ON THE VESSEL OR IN AREAS ADJACENT TO THE VESSEL BY THE CONTRACTOR OR BY OTHERS, THE CONTRACTOR SHALL PROTECT, MASK OR SEAL OFF SEA VALVES, MOTORS, MACHINERY AND EQUIPMENT AND ALL OPENINGS AS NECESSARY TO PREVENT DAMAGE BY ABRASIVE GRAINS OR DROSS.

E. SCHEDULE OF SURFACE PREPARATION IS INCLUDED ON SHTS #3 & 4.

SURFACE PREPARATION FOR, AND APPLICATION OF SPECIAL TYPES OF COATINGS, SUCH AS CATALYZED EPOXY, INORGANIC ZINC, VINYL AND AUTOMATION TYPE PRIMERS SHALL BE UNDER THE SUPERVISION AND INSPECTION OF THE COATING MANUFACTURER'S REPRESENTATIVE, EXCEPT WHEN OTHERWISE SPECIFICALLY APPROVED.

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GENERAL NOTES

1. INTRODUCTION

ALL PAINT AND FINISHING MATERIALS SHALL BE BEST-GRADE COMMERCIAL PRODUCTS OF A QUALITY SATISFACTORY TO THE OWNER. THE COLOR SCHEME SHALL BE IN ACCORDANCE WITH THE OWNER'S COLOR SCHEME. THE CONTRACTOR SHALL PREPARE THE STEEL SURFACE ACCORDING TO PART 3, OF THESE GENERAL NOTES, "SURFACE PREPARATION".

2. GENERAL REQUIREMENTS

A. THE MATERIALS EMPLOYED IN THIS SCHEDULE ARE NUMBERED AND DESCRIBED ACCORDING TO SECTION 14 OF LYKES SPECIFICATIONS. SEE SECTION D OF THIS SCHEDULE, FOR THIS NUMBERICAL LIST OF PRODUCTS.

B. UPON DELIVERY OF THE SHIP, PAINT WORK SHALL BE COMPLETE AND IN A SERVICEABLE CONDITION. THE CONTRACTOR SHALL FURNISH THE MATERIALS REQUIRED AND DO REPAINTING AS NECESSARY TO OBTAIN THIS RESULT.

A F

C. ALL PAINTING OF BOTTOM AND BOOTTOPPING OTHER THAN MINOR TOUCH-UP SHALL BE COMPLETED PRIOR TO LAUNCHING. PAINT SHALL BE APPLIED BY BRUSH, ROLLER OR SPRAYING. PAINT SHALL NOT BE APPLIED TO SURFACES DURING COLD WEATHER (BELOW 35° F.) UNLESS CARE IS TAKEN TO INSURE ABSENCE OF FROST OR ICE. DRYING TIME BETWEEN COATS SHALL BE INCREASED AS NECESSARY, ACCORDING TO PAINT MANUFACTURER'S INSTRUCTIONS. METHOD OF APPLYING PAINT IS TO BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS OR PROCEDURES.

A

D. MINIMUM DRY FILM THICKNESS (MDFT) OF EACH PAINT PRODUCT IS STATED, WHERE USED THROUGHOUT THE SHIP. THESE (MDFT) REQUIREMENTS SHALL HAVE PRECEDENCE OVER THE MINIMUM NUMBER OF COATS SPECIFIED. THICKNESS REQUIREMENTS OF EACH SPECIFIED COAT SHALL BE MAINTAINED BY USE OF A WET GAGE DURING APPLICATION, EXCEPT WHEN APPLYING INORGANIC ZINC. INORGANIC ZINC FILMS SHALL BE DRY WHEN GAGED TO INSURE PROPER FILM THICKNESS.

A

E. A MINIMUM OF TWO COATS SHALL BE APPLIED TO SATISFY ALL REQUIREMENTS FOR MINIMUM FILM THICKNESS EXCEPT WHERE ONE COAT IS SPECIFICALLY PERMITTED. AFTER THE FIRST COAT HAS BEEN APPLIED, SUBSEQUENT COATS SHALL NOT BE APPLIED UNTIL THE PRECEEDING COAT HAS BECOME PROPERLY DRY AND HARD. BEFORE THE APPLICATION OF ANY COAT, ALL BARE SPOTS ON THE PRECEEDING COAT SHALL BE "TOUCHED-UP". WHERE MORE THAN ONE COAT OF A MATERIAL IS SPECIFIED, ALTERNATE COATS SHALL BE TINTED TO ASSURE FULL COVERAGE OF EACH COAT. FINAL COAT TO BE COLOR SPECIFIED.

F. ALUMINUM FOIL IN WAY OF BLOCKS

THE AREAS IN WAY OF BLOCKS SHALL BE PROTECTED FROM COMPONENTS IN THE WOOD BLOCKING BY MEANS OF ALUMINUM FOIL, AT LEAST 0.002 INCH THICK. SEE GENL. NOTE #4-W.

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GENERAL NOTES

GENERAL NOTE #2 CONT'D

G. UNLESS OTHERWISE SPECIFIED, OR APPROVED, BY THE MANUFACTURER, PAINT AND OTHER COATING MATERIALS ARE NOT TO BE THINNED WITH SOLVENT, OR ALTERED IN ANY MANNER BY THE CONTRACTOR, NOR APPLIED OVER MOIST OR OTHERWISE QUESTIONABLE SURFACES.

H. WHERE NECESSARY, SCUPPERS SHALL BE TEMPORARILY SEALED OFF AND OVERBOARD DRAINS PLUGGED OR LED CLEAR, SO THAT THE HULL WILL REMAIN DRY DURING THE APPLICATION OF PAINT.

J. PRIMING OR PAINTING OF WELDS IN COMPARTMENTS OR TANKS REQUIRED TO BE TESTED SHALL BE KEPT TO A MINIMUM AND SUBJECT TO APPROVAL UNTIL AFTER COMPLETION OF SUCH TESTS.

K. U.S.A. STANDARDS INSTITUTE SAFETY COLORS SHALL BE USED TO DISTINGUISH HATCH OPENINGS, MACHINERY, MOVING PARTS AND FITTINGS WHICH PRESENT A HAZARD.

L. ALL FIXTURES, ADJACENT SURFACES, LABEL AND NAMEPLATES, GASKETS, THREADS, WORKING PARTS, VALVES, ELECTRICAL EQUIPMENT, ETC., SHALL BE PROPERLY PROTECTED DURING THE PREPARATION OF, AND PAINTING OF SURROUNDING AREAS, AND ON COMPLETION OF THE FINAL COAT, ALL PAINT AND SMUDGES SHALL BE REMOVED FROM GLASS, HARDWARE, PLUMBING AND ELECTRICAL AND ELECTRONIC FIXTURES, DECK COVERING, GREASE FITTINGS, ALL MOVING PARTS, ETC., PRIOR TO OFFICIAL TRIALS AND DELIVERY.

M. WHERE NOT OTHERWISE STATED, ALL PARTS OR SPACES WHICH ARE NORMALLY PAINTED SHALL BE CLEANED AND PAINTED TO CONFORM TO THE SURROUNDINGS OR TO COMPARABLE PARTS OR SPACES.

N. PRIMED AND/OR PAINTED AREAS WHICH SHOW RUST, ABRASION, OR SHRINKAGE MARKS, OR OTHER DETERIORATION SHALL BE SANDBLASTED, WIRE BRUSHED OR DISC SANDED AS REQUIRED TO SUIT SERVICE AND/OR COATING OF SUCH AREA PRIOR TO APPLYING SUBSEQUENT OR FINAL COATS. ALL PAINTING SHALL BE COMPLETED IN EVERY RESPECT WITH FINAL COATS APPLIED JUST PRIOR TO DELIVERY.

F G

P. STEEL PLATES AND SHAPES PROCESSED THRU THE AUTOMATIC STEEL SHOT-BLAST AND PAINT LINE FACILITY SHALL RECEIVE A COAT OF AMERCOAT CORP., DIMETCOTE STEEL PRIMER #1 (PRODUCT NO. 43) - AS A PRE-CONSTRUCTION PRIMER 0.75 MIL DRY FILM THICKNESS AFTER SHOT-BLASTING. DIMETCOTE PRIMER #1 (PRODUCT NO. 43) SHALL NOT BE APPLIED TO INTERIORS OF BALLAST TANKS AND POTABLE/AND OR FRESH WATER TANKS AND SHALL NOT BE APPLIED TO EXTERIOR UNDERWATER HULL SURFACES BELOW THE 18'-0" WATERLINE. IN ALL OTHER AREAS DIMETCOTE #1 (PRODUCT NO. 43) THAT IS STILL IN GOOD CONDITION MAY BE LEFT AS A PRIMER FOR THE DESIGNATED PAINT SCHEME.

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REVISIONS

REV.	SECT. NO.	SHEET NO.	LINE NO.	ITEM NO.	DESCRIPTION	BY	CONTR DATE	CONTR APPD.	OWNER DATE	OWNER APPD.
S	E	6	6	12.	REVISED 3RD & 4TH COAT.	T.Z.	9/14/72	ed.	—	
	F	3	11	13.	PAINT SCHEME FOR BHD & OVHD REVISED					
	F	3	21	14.	PAINT SCHEME REVISED.					
	F	10	37	15	PAINT SCHEME FOR BHD & OVHD REVISED					
	F	13	18 & 19	16.	PAINT SCHEME REVISED. SOURCE: ITEMS #1 THRU 4 & 6 THRU 15 TO SUIT YARD REQUEST. ITEM #5 INCORP AEA S-1361 LYKES					

RESERVATIONS

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GENERAL NOTES

REVISION: J, A, J

4. EXTERIOR PAINTING

A. SURFACES MAY BE PREPARED FOR PAINTING PRIOR TO OR AFTER ERECTION. AFTER CLEANING, A SUFFICIENT AMOUNT OF PRIMER COATS OF THE TYPES SPECIFIED, SHALL BE APPLIED, TO PREVENT THE STEEL FROM RUSTING. ALL PAINTED AREAS SUBSEQUENTLY DAMAGED BY FABRICATION, WELDING, ABRASION, RUSTING, ETC., SHALL BE RE-PREPARED, FEATHERED-IN AND TOUCHED-UP PRIOR TO APPLICATION OF THE SUCEEDING COAT OF PAINT.

MINOR GOUGES, DENTS ETC., OF INTERIOR EXPOSED STEEL SURFACES WHERE EXPOSED TO VIEW SHALL BE SMOOTHED WITH APPROVED GLAZING COMPOUND SUCH AS INTERNATIONAL SURFACING PUTTY NO. 255, OR EQUAL, BUT SHALL NOT BE USED IN LIEU OF FAIRING, OR GRINDING OF WELDS WHERE REQUIRED.

B. MODULES, OR PARTIAL AREAS OF MODULES, WHICH CONTAIN TANKS, DESIGNATED FOR FUEL OR LUBE OIL, SHALL BE COATED WITH RUST-PREVENTIVE COMPOUND, MIL-C-16173, PRODUCT #30 OF SECTION "D" OF THIS SCHEDULE, BEFORE ERECTION TO PROVIDE TEMPORARY PROTECTION FOR WEATHER EXPOSED SURFACES. FOR COMPLETE TANK TREATMENT, SEE SECTION "E", PAINT SCHEMES-INTERIOR, SCHEME "Q".

C. KEEL TO LIGHT LOAD LINE - AREAS IN WAY OF KEEL BLOCKS, BILGE BLOCKS, SHORING TO BE COMPLETELY PAINTED PRIOR TO LAUNCHING. PROPELLER TO RECEIVE A TEMPORARY GREASE APPLICATION OF TECTYL #502-C, PRODUCT #30 TO RETARD FOULING. THE FIRST COAT OF UNDERWATER PRIMER PRODUCT #12, TO BE BRUSH APPLIED TO ALL WELDS, LAPS AND RIVETED AREAS.

PAINT SYSTEMS ARE TO BE COMPATIBLE WITH THE IMPRESSED CURRENT CATHODIC PROTECTION SYSTEM USED, BUT SHALL NOT BE USED IN WAY OF SPECIAL SHIELDING FOR CATHODIC PROTECTION.

AT PRE-DELIVERY DRYDOCKINGS, AREA FROM KEEL TO LIGHT LOAD LINE TO BE FREED OF FOULING AND OIL SLICKS BY SCRAPING AND/OR SANDSWEEPING AND WASHING DOWN WITH FRESH WATER. BARE OR RUSTED AREAS TO BE ABRASIVE BLASTED AND BUILT UP TO ORIGINALLY SPECIFIED MDFT BY TOUCH-UPS OF PRODUCT #12. SURFACE TO BE DRY BEFORE PAINTING. AVOID APPLYING PRODUCT #13 OVER TOUCH-UPS OF PRODUCT #12.

ANTI-FOULING PAINT SHALL BE APPLIED WITHIN TIME LIMIT RECOMMENDED BY PAINT MANUFACTURER PRIOR TO RENDERING SHIP WATER-BOURNE.

FOR COMPLETE UNDER WATER PAINTING, SEE SECTION "E" OF THIS SCHEDULE, EXTERIOR SCHEME A, A1 AND A2.

BOW THRUSTER SHAFT AND PROPELLER TO RECEIVE A TEMPORARY GREASE APPLICATION OF TECTYL #502-C, PRODUCT #30 TO RETARD FOULING..

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GENERAL NOTES

GENERAL NOTE #3 (CONTINUED)

REVISION	SCHEME	BRIEF DESCRIPTION - SEE SECT. "E"	BLAST REQUIRED	SPECIFICATIONS	REMARKS
	V	MACHY EQUIPMENT BEL 200° V_1 ABV 200° V_2	SP-6 SP-6	SHT #14-3;LINES 34-36	INTERIOR SCHEME
	W	ALL INTERIORS, BHDS & OVERHDS NOT OTHERWISE COVERED	SP-6		
	X	GARBAGE ROOM, BATTERY LKRS INCLUDING VENT DUCTS THEREIN	SP-6		
A	Y	STEEL WORK BEHIND UNSUL JOINER WORK, SHOWER STALLS ETC.	SP-5		SEE REF #21, PG. 2
	Z	DECKS IN STORES & SPACES NOT OTHERWISE COVERED IN SECT 7 & HEREIN EXCEPT TABLE 1	SP-6		
	AA	GALV EXP METAL BHDS & E.M. DRS & EXPOSED GALVANIZED SHEATHING	~	MIL-S-15328	DEGREASE WITH SOLVENT WASH PRIMER
	AB	OUTSIDE OF INNER STACKS	SP-6		
	AC	INTERIOR OF MASTS, CRANE TUB PEDESTALS & EXTERIOR DRAINS	SP-6		
A	AD	RUDDER INTERIOR & SPACE BET SHAFT TUBE & PROP SHAFT	~	MIL-C-16173	FILL AND DRAIN WITH RUST PREVENTATIVE COMPOUND GRADE 1
C	AE	STEEL DECKS & BHDS IN WAY OF INSULATION IN REFRIGERATED STORES	SP-6		
A	AF	MOORING STATIONS, FOCLE BULWARK (INBOARD & OUTBD)	SP-5		
A	AG	SKEG - INTERIOR	SP-6		
	AH	(SEE GENERAL NOTE 5-D)	~		
	AJ	PLENUMS, FAN RMS (AREAS OPEN TO WEATHER	SP-5		GEN NOTE 5-S
	AK	INACCESSIBLE SPACES	~	MIL-C-16173	(SEE SECT. E; SHT #6; LINE 12)
C	AL	GALVANIZED EXPANDED METAL BHDS & E.M. DOORS IN MACHY SPACE		MIL-S-15328	DEGREASE WITH SOLVENT WASH PRIMER
C	AM	STEERING GEAR CONTROL RM - DECK	SP-5		
F	AN	TRANSPORTER TRACK	SP-10		
H	AP	CRES - NATURAL FINISH	—		SEE GEN NOTE 10A & 3A, 10C
H	AR	PIPE HANGERS, STEEL (OTHER THAN CRES)	SP-6		SEE GEN NOTE 10B

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GENERAL NOTES

GENERAL NOTE #3 CONTINUED

SCHEME	BRIEF DESCRIPTION - SEE SECT. "E"	BLAST REQUIRED	SPECIFICATIONS	REMARKS
AS	CABLE HANGER, STEEL (OTHER THAN CRES)	SP-6		SEE GEN NOTE 10-D

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GENERAL NOTES

GENERAL NOTES #3 CONTINUED

REVISION	SCHEME	BRIEF DESCRIPTION - SEE SECT. "E"	BLAST REQUIRED	SPECIFICATIONS	REMARKS
	A	EXTERIOR SHELL KEEL TO L. L. LINE	SP-10	SHT #14-3: LINES 34-36	EXTERIOR SCHEMES
A	B	BOW THRUSTER TUNNEL, SEA CHESTS	SP- 5		
	C	BOOT TOPPING	SP-5		
	D	DEEP LOAD LINE TO RAIL, ANCHORS	SP-5		
	E	EXPOSED STEEL DKS UPPER DK & ABV HOUSE TOPS	SP-5		
	F	ALL OUTSIDE EXPOSED STL DK MACHY W.T. DOORS	SP-5		
	G	OTHER DKS MN & LWR BARGE - MOORING STA WINDLASS STAS - LOADS AREAS	SP-5		
A	$H_1 + H_2$	STEEL WINGWALLS COLS. - BHDS & OVERHD WIND MACHY SPACE	H_1 SP-5 H_2 SP-10		
	I	ALL OUTSIDE EXPOSED STL DK MACHY - W.T. DOORS	SP-5		
	J	ALL EXPOSED CRES & NON-FERROUS METAL	—		
	K	DIESEL ENG. EXH	—		
	L	WIRE ROPE-RUNNING RIGGING	—		
A	M	TANKS, RES FEED, CHAIN LKR, BALLAST	SP-~~4~~5	SHT #14-3: LINES 34-36	INTERIOR SCHEMES
	N	COFFERDAMS, VOIDS, PEAKS	SP-6		
	O	TANKS, POT WATER	SP-5		
	P	SEWAGE HOLDING TANKS	SP-10		
A	Q	TANKS, F.O. & L.O. & STABILIZER TANK	SP-6		
A	$R_1 + R_2$	MACHY SPC., BOW THRUSTER RM SHAFT ALLEY	R_1 BEL. FLR PLTS SP- 5 R_2 ABV. FLR PLTS. SP- 6		
	S	FLOOR PLTS	SP-5		
	T	PIPING BELOW FLR PLT LEVEL ENG RM & S. ALLEY	SP-5		
A	U	PIPING ABOVE FLOOR PLT LEVEL ABV 200° BEL 200°	SP- 6 SP- 8		

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GENERAL NOTES

4. (CONTINUED) EXTERIOR PAINTING

R. MISC EXPOSED METALS - SUCH AS CRES AND NON-FERROUS METAL SURFACES WHERE NATURAL FINISH IS NOT APPROVED AS FINAL, ARE TO RECEIVE PAINTING AS PER SCHEME "J", SECTION "E" OF THIS SCHEDULE. FOR EXAMPLE - CABLE HANGERS, PIPING, HANDRAILS, LADDERS (ACCOMMODATION) ETC. **SEE SCHEME AP, SECT. E, ALSO.**

S. DIESEL ENGINE EXHAUST - SEE SCHEME "K", SECTION "E" OF THIS SCHEDULE.

T. WIRE ROPE RIGGING - SEE SCHEME "L", SECTION "E" OF THIS SCHEDULE. PRIOR TO DELIVERY OF SHIP ALL WIRE ROPE RUNNING RIGGING SHALL BE THOROUGHLY CLEANED OF ALL SAND, GRIT, ETC., AND LUBRICATED AS INDICATED IN SCHEME "L", SECT. E.

U. (1) ELEVATOR PLATFORM: - THE STRUCTURAL STEEL PORTION OF THE ELEVATOR PLATFORM, EXCLUSIVE OF ALUMINUM GRATINGS AND TOP SIDE (DECK) SHALL BE PAINTED WITH SCHEME "M". ALUMINUM PORTION OF ELEVATOR INCLUDING ALUMINUM GRATINGS SHALL BE PAINTED WITH SCHEME "J". THE STEEL PORTIONS ON TOP OF ELEVATOR PLATFORM (DECK) SHALL BE PAINTED WITH SCHEME "E". THE INACCESSIBLE AREAS IN THE UPRIGHTS ETC., SHALL BE SCHEME "AD" (FILL AND DRAIN). **SEE SECT. "F", SHEET 12B.**
(2) PAINT SYSTEM FOR ELEVATOR, ELEVATOR BOX GIRDERS & UNDER SIDE OF ELEVATOR.
1ST COAT - LATENAC HI-BUILD ALUM. #3037.
2ND COAT - LATENAC HI-BUILD CREAM #3038.
3RD COAT - LATENAC FINISH COAT HI-BUILD, BLACK #3007.

V. BITTS AND CHOCKS - ARE TO BE PAINTED IN ACCORDANCE WITH SCHEME "I" EXCEPT FINAL TWO COATS WILL BE PRODUCT 24D. (SEE REFERENCE 23: PAR. 6).

W. **PRODUCT #38 TO BE APPLIED WITH 24 HOURS DRYING TIME BEFORE KEEL IS SET ON BLOCKS. BLOCK TO BE FOIL COVERED (.002"THK) (SEE GENERAL NOTE #2-F).**

X. **COATINGS FOR STACK, PLENUM, VENT PIPE, ETC., SEE SECT "F" SHEET 12A.**

Y. **LYKES INSIGNIA TO BE PAINTED THUS: THE LETTER "L" IS TO BE PAINTED WHITE AND THE FIELD TO BE PAINTED "BLUE" INTERNATIONAL #1196.**

Z. **AT JOINTS BETWEEN EXTRUDED GRATING SECTIONS, WHERE KOPPERS BITUMASTIC IS APPLIED, USE KOPPERS "TAR STOP" (PC #1) TO PREVENT "BLEEDING" OF BITUMASTIC PRIOR TO PAINTING.**

IT IS RECOMMENDED THAT "TAR STOP" BE APPLIED TO A SAMPLE SECTION OF GRATING, BEFORE CLEANING OF SAME TO DETERMINE WHETHER IT WILL PREVENT CLEANING SOLVENT BEING USED FROM AFFECTING THE BITUMASTIC.

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GENERAL NOTES

4. (CONTINUED) EXTERIOR PAINTING

H. ANCHOR CHAIN - ANCHOR CHAIN SHOTS OF 15 FATHOMS EACH SHALL BE IDENTIFIED BY THE FOLLOWING COLOR CODE AT EACH DETACHABLE LINK; ~~WITH THE LINKS~~ ON EACH SIDE OF EACH DETACHABLE LINK PAINTED WHITE IN COLOR. -

15 FATHOM DETACHABLE LINK,	COLOR RED,	ONE LINK EACH SIDE, COLOR WHITE
30 FATHOM DETACHABLE LINK,	COLOR WHITE,	TWO LINKS EACH SIDE, COLOR WHITE
45 FATHOM DETACHABLE LINK,	COLOR BLUE,	THREE LINKS EACH SIDE, COLOR WHITE
60 FATHOM DETACHABLE LINK,	COLOR RED,	FOUR LINKS EACH SIDE, COLOR WHITE
LINKS IN THE NEXT TO LAST SHOT,	COLOR YELLOW	
LINKS IN THE LAST SHOT INBOARD,	COLOR RED	

CHAIN SHALL ALSO BE MARKED ABOVE AND BELOW THE "BALDT" PATENT DETACH LINK WITH SEIZING WIRE OF PROPER IDENTIFICATION.

TWO (2) COATS OF PRODUCT #21 IN COLORS DESCRIBED ABOVE, SHALL BE APPLIED OVER ONE (1) COAT OF PRODUCT #3. ALL REMAINING ANCHOR CHAIN SHALL RECEIVE ONE (1) COAT OF PRODUCT #36 ASPHALT VARNISH, FED. SPEC. TT-V-51A COATINGS SHALL BE TOUCHED-UP WHERE ABRADED OR DAMAGED, PRIOR TO THE SHIPS DELIVERY.

J. EXPOSED STEEL DECKS -

UPPER DECK AND ABOVE, INCLUDING HOUSE TOPS, STEEL PORTIONS OF ELEVATOR PLATFORM, AND BOAT SERVICING PLATFORMS:- FOR COMPLETE PAINTING OF THESE WEATHER-EXPOSED DECK AREAS, SEE SECTION "E", SCHEME "E". TOP PRIMING, PRODUCT #23 AND FINISH COATING, PRODUCT #26 OVER INORGANIC ZINC, PRODUCT #22A SHALL NOT BE PERFORMED UNTIL AFTER SEA TRIALS AND NECESSARY TOUCH-UP OF ZINC COATINGS HAVE BEEN ACCOMPLISHED, FOR SHIP AREAS ABOVE AND DESCRIBED BELOW - GENERAL NOTE 4-L.

K. WEATHER EXPOSED AREAS -

WHERE THE TERMS "WEATHER EXPOSED" OR "EXPOSED TO THE WEATHER" ARE USED IN THIS PAINT SCHEDULE, THEY ARE TO MEAN ALL EXTERIOR SURFACES FROM KEEL TO TOPMOST AREA, WHICH AFTER ERECTION OR INSTALLATION, ARE EXPOSED DIRECTLY OR INDIRECTLY TO THE WEATHER. THIS INCLUDES DECK MACHINERY, DAVITS, EXTERIORS OF MOTORS AND BRAKE HOUSINGS, INTERIORS OF FOUNDATIONS ~~INTERIORS,~~ FIRE STATIONS, PEDESTALS AND EQUIPMENT HOUSINGS WHICH HAVE OPENINGS TO THE ~~ATMOSPHERE.~~ WEATHER.

ALSO INCLUDED ARE UNDERSIDES OF WEATHER DECK HATCH COVERS, INSIDE OF SIDEPORTS, VENT COVERS, WATERTIGHT DOORS (INCLUDING STERN GATES) AND THEIR RESPECTIVE GASKET RETAINERS, BARGE DECKS (LOWER & MAIN), ELEVATOR PLATFORM AND ATTACHMENTS, INTERIORS OF VENTILATION DUCTS FOR A DISTANCE OF ABOUT 8 FT. FROM WEATHER OPENINGS, PLENUM CHAMBERS OR FAN ROOMS OPEN TO WEATHER, DECK MACHINERY COMPARTMENTS AND MOORING STATIONS OPEN TO OR WHICH CAN BE OPEN TO THE WEATHER, AND AREAS BETWEEN THE BACKS OF CONTROL BOXES AND STRUCTURE IF NOT SEAL WELDED.

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GENERAL NOTES

4. (CONTINUED) EXTERIOR PAINTING

K. (CONTD) - EXCLUDED FROM THE LIST OF AREAS DESCRIBED ABOVE AS "WEATHER EXPOSED", ARE THE FOLLOWING ITEMS; INTERIOR OF CRANE TUB PEDESTALS, INTERIOR OF EXTERIOR DECK DRAINS, INTERIORS OF MOTORS AND MASTS, (SEE SECT. "E", SHT. 6, SCHEME AC) ANCHOR CHAIN (SEE GENERAL NOTE 4-H), AND SURFACES OILED OR GREASED.

L. WEATHER EXPOSED STEEL - SUCH AS DECK HOUSE BHDS, DECK MACHINERY, W.T. DOORS (BOTH SIDES), HATCH COVERS, ETC., ON THE UPPER, ~~POOP AND FORECASTLE~~ DECKS AND ABOVE INCLUDING SUPERSTRUCTURE EXTERIOR BHDS. THESE AREAS-LISTED, ARE TO RECEIVE PAINTING AS PER SCHEME "F" SECTION "E", OF THIS SCHEDULE.

M. OTHER WEATHER EXPOSED DECKS - AS FOLLOWS: MAIN AND LOWER BARGE DECKS, MAIN DECK MOORING STATIONS, CABIN DECK ANCHOR ~~WINDLASS STATIONS, STORES~~ LOADING AREAS ON CABIN DECK - FR 23-27 P/S. THESE DECK AREAS LISTED, ARE TO RECEIVE PAINTING AS PER SCHEME "G", SECTION "E" OF THIS SCHEDULE. INTERNATIONAL NON SKID PAINT MFR'S # 3034 (1 COAT 8 MILS) MAY BE USED AS AN ALTERNATE ON THE UPPER DECK OF LYKES 19 & ON THE LOWER, MAIN & UPPER DECKS OF LYKES 20.

N. OTHER WEATHER EXPOSED AREAS - SUCH AS STEEL WINGWALLS (MAIN LONG'L BHDS P/S) COLUMNS (STANCHIONS) BULKHEADS AND OVERHEADS (~~UNDERSIDE OF DECK PLATING OVER~~) OF LOWER BARGE DECK, MAIN BARGE DECK, MAIN DECK MOORING STATIONS AND MOORING MACHINERY SPACES ON MAIN DECK, ANCHOR WINDLASS MACHINERY SPACE ON MAIN DECK.

THE PAINTING FOR THESE AREAS LISTED, ARE AS PER SCHEME "H" SECTION "E" OF THIS SCHEDULE. SCHEME "H" IS IN TWO (2) PARTS, PART "1", COVERS BHD SURFACES UP TO 24" (2'-0") ABOVE DECK. PART "2", COVERS BHD SURFACES FROM 24" (2'-0") ABOVE DECK TO/AND INCLUDING OVERHEAD STRUCTURE.

P. WEATHER EXPOSED STEEL - INCLUDING MISC. CAST IRON, DECK MACHINERY, W.T. DOORS (BOTH SIDES) AND HATCH COVERS, ETC., LOWER ~~AND MAIN BARGE DECKS,~~ MOORING AND ANCHOR WINDLASS STATIONS. THESE AREAS LISTED ARE TO RECEIVE PAINTING AS PER SCHEME "I", SECTION "E" OF THIS SCHEDULE. NOTE: PURCHASED ITEMS (VENDOR SUPPLIED EQUIPMENT) HAVING FINISH COATINGS (PRE-PAINTED AT FACTORY), ARE TO BE TOUCHED-UP AS ORIGINAL, PRIOR TO DELIVERY.

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GENERAL NOTES

4. (CONTINUED EXTERIOR PAINTING

D. BOW THRUSTER TUNNEL - AND SHELL FAIRING (EXCEPT CRES WEARING RING) AND TRASH BARS WHERE EXPOSED TO SEA WATER: SEA CHESTS; RUDDER AND FAIRING PIECES; UNDERWATER STERN AREA AFT OF STERN TUBE BELOW LOAD LINE ARE TO RECEIVE PAINTING AS PER SCHEME "B" OF SECTION "E" OF THIS SCHEDULE.

SPECIAL COATINGS SPECIFIED IN AREAS BELOW LIGHT LOAD LINE TO BE MAINTAINED AT DRY DOCKING IN ACCORDANCE WITH PAINT MANUFACTURER'S RECOMMENDATIONS.

E. **THE AREA OF THE SHIP'S HULL KNOWN AS "BOOT TOPPING" IS TO RECEIVE PAINTING AS PER SCHEME "C" OF SECT "E" OF THIS SCHEDULE. THE UPPER LIMIT OF THE BOOT TOPPING AREA SHALL BE AT THE 35'-0" W.L. FORWARD, TO THE 37'-0" W.L. AFT, AND THE LOWER LIMIT SHALL BE THE 18'-0" W.L. FORWARD AND AFT.**

E. ~~LIGHT LOAD LINE TO DEEP LOAD LINE - THIS AREA OF THE SHIP'S HULL KNOWN AS "BOOT TOPPING", IS TO RECEIVE PAINTING AS PER SCHEME "C" - SECTION "E" OF THIS SCHEDULE, THE LIGHT LOAD LINE SHALL BE STRUCK 12" ABOVE LINE CALCULATED IN LIGHT SHIP WEIGHT ESTIMATE AND THE DEEP LOAD LINE SHALL BE STRUCK 12" BELOW FORWARD AND 12" ABOVE AFT OF THE VESSEL'S FULL LOAD DRAFT. AT DRAFT 35'-0" FWD AND 37'-0" AFT.~~

F. DEEP LOAD LINE TO RAIL ALSO ANCHORS, AND ELEVATOR STRUCTURE, ARE TO RECEIVE PAINTING AS PER SCHEME "D" SECTION "E" OF THIS SCHEDULE.

G. SHIPS NAME, DRAFTMARKS, AND DISTINGUISHING MARKS - DRAFT NUMERALS BELOW LIGHT LOAD LINE, AFTER ANTI-FOULING, SHALL RECEIVE TWO COATS WHITE, TT-E-489, CLASS A.

DRAFT NUMERALS ABOVE LIGHT LOAD LINE, BULKHEAD LOCATIONS AT THE FULL LOAD WATER LINE, LOAD LINE MARKINGS, SHIP'S NAME AND HAILING PORT, "LYKES LINES" ON SIDES, WARNINGS, ETC., SHALL RECEIVE TWO FINISH COATS, ~~AS SPECIFIED.~~ PROD. #24D SEE REFERENCE #13.

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GENERAL NOTES

6. FAYING SURFACES

A. FAYING SURFACES OF STEEL TO STEEL, EXCEPT WHEN FORMED BY CONTINUOUS WELDING, SHALL RECEIVE TWO COATS OF PRODUCT #11 (PRE-ERECTION PRIMER), ON EACH FAYING SURFACE PRIOR TO CLOSURE.

B. FAYING SURFACES OF ALUMINUM TO ALUMINUM SHALL BE PROTECTED FROM CORROSION BY APPLICATION OF ONE (1) COAT OF PRODUCT #1 (PRE TREATMENT PRIMER) AND ONE (1) COAT OF PRODUCT #11 (PRE-ERECTION PRIMER) TO EACH FAYING SURFACE.

C. RIVETED OR BOLTED FAYING SURFACES EXPOSED TO WEATHER OR DAMPNESS SHALL BE FURTHER PROTECTED BY APPLYING JOINT SEALING MATERIAL, MIL-J-2829D, CLASS 2 OF 0.050" THK OR EQUAL IF APPROVED BY OWNER.

D. APPROVED TYPE INSULATING TAPE SHALL BE USED BETWEEN ALL FAYING SURFACES OF DISSIMILAR METALS. INSULATING TAPE SHALL BE TWO THICKNESSES, 20 MILS. MINIMUM, MIL SPEC MIL-I-7798.

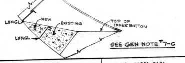
E. WHERE ALUMINUM WILL BE JOINED TO OTHER METALS, INCLUDING GALVANIZED STEEL, FAYING SURFACES SHALL BE PROTECTED BY TWO COATS OF PRODUCT #2 OVER ONE COAT OF PRODUCT #1.

7. CEMENTING AND FILLING

A. ALL GALLEY EQUIPMENT FOUNDATIONS SHALL BE FILLED WITH A CONCRETE COMPOUND OF "ALUMINITE CEMENT AND "HAYDITE" AGGREGATE, OR EQUAL UNLESS THE INSIDE SURFACE (VOIDS) ARE PROVEN WATERTIGHT.

B. INACCESSIBLE PORTION OF PEAKS AND STERN FRAME SHALL BE TREATED WITH CEMENT TO PROVIDE PROPER DRAINAGE. THE DEPTH OF THE CEMENT SHALL BE KEPT TO A MINIMUM.

△P C. THE SPACES BETWEEN THE SHELL AND THE TANK TOP MARGIN PLATES PORT AND STBD. IN THE ENGINE ROOM ARE TO BE FILLED WITH A LIGHT WEIGHT CEMENT MIXTURE AFTER COATING THESE AREAS AS REQUIRED BY SCHEME "R_1" OF THIS SCHEDULE. CEMENT MIXTURE SHALL BE INSTALLED ABOVE & BELOW THE 1ST LONGL. TO ELIMINATE WATER ENTRAPMENT SEE SKETCH BELOW. THE LIGHT WEIGHT CEMENT MIXTURE INCLUDING FILLER SHALL BE MADE OF TWO PARTS PEARLITE AND ONE PART COKE CAPPED OFF WITH A 3" LAYER OF CEMENT MORTAR FOR TIGHTNESS. THE FILL SHALL BE SLOPED DOWNWARD FROM THE SHELL AT AN ANGLE OF 15° TO PREVENT FORMING OF POCKETS. THE STEEL SHALL HAVE AN ADDITIONAL BITUMASTIC TYPE COATING, PRODUCT #5, PRIOR TO POURING CEMENT MIXTURE.



SEE GEN NOTE #7-C

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GENERAL NOTES

5. INTERIOR PAINTING

A. ALL COMPARTMENTS, VOIDS, TANKS OF VARIOUS TYPES, WITHIN THE COMPLETE HULL AND SUPER-STRUCTURE ARE LISTED IN ORDER, STARTING FROM THE LOWEST DECKS AND UP. EACH DECK'S COMPARTMENTS ARE LISTED BY APPROX. FRAME LOCATION, STARTING FROM BOW TO STERN. SECTION "F" OF THIS SCHEDULE CONTAINS THIS INFORMATION.

B. ALL STRUCTURE WITHIN TANKS, INCLUDING LADDERS, BRACKETS, STIFFENERS, UNDERSIDE OF MANHOLE COVERS, ETC. ARE TO RECEIVE THE SAME PAINT SCHEME AS THE TANK.

C. FIRST COAT OF FINISH COATING SYSTEM TO BE BRUSH COATED ON ALL WELDS, PROJECTIONS, FASTENINGS, ETC., FOR TANKS AND COMPARTMENTS LISTED IN PAINT SCHEMES M, N, O, P, T,

D. STEERING GEAR ROOM, MACHINERY SPACES AND OTHER UNSHEATHED SPACES SUCH AS STOREROOMS, SHOPS, ETC. LOCATED AGAINST THE SHELL OR HAVING UPPER DECK OR FORECASTLE DECK AS OVERHEAD, SUBJECT TO CONDENSATION, SHALL BE LIBERALLY SPRINKLED WITH MICA OR VERMICULITE PELLETS OVER SECOND PRIME (BINDER) COAT, AND/OR MIX BATCH OF SIZING & MICA FOR APPLICATION BY SPRAYING.

E. TANKS DESIGNATED FOR POTABLE OR DISTILLED WATER, ARE TO RECEIVE PAINTING AS PER SCHEME "O", SECTION "E" OF THIS SCHEDULE. NOTE: JUST PRIOR TO DELIVERY, ALL TANKS, PIPING, FIXTURES, VALVES, PUMPS AND ANY OTHER SYSTEMS OR PARTS OF SYSTEMS THROUGH WHICH ANY PART OF THE SHIP'S POTABLE WATER SYSTEM MAY FLOW, SHALL BE THOROUGHLY CLEANED, FLUSHED AND TREATED IN ACCORDANCE WITH U.S.P.H.'S REQUIREMENTS.

F. TANKS DESIGNATED FOR FUEL OIL OR LUBE OIL SHALL BE TREATED AS LISTED IN SECTION "E", SCHEME "Q". THE APPROVED PRESERVATIVE SHALL BE TECTYL 502C. THIS MATERIAL DOES NOT HAVE TO BE REMOVED PRIOR TO FLUSHING OPERATIONS.

G. HI-BUILD UNDERWATER PRIMER-PRODUCT #12A SHALL BE REDUCED 5% BY VOLUME WITH PRODUCT #11B - EPOXY SOLVENT.

H. MACHINERY ELEMENTS OR COMPONENTS OF BRONZE, BRASS, COPPER-NICKEL, OR CRES (EXCEPT PIPING) SHALL BE NATURAL FINISH, POLISHED AND COATED WITH CLEAR PLASTIC JUST PRIOR TO DELIVERY. USE PRODUCT NO. 35 IN THESE AREAS.

J. NON-FERROUS AND GALV. PIPING BELOW FLOOR PLATE LEVEL, AND PIPING WITH TEMP. BELOW 200° ABOVE FLOOR PLATE LEVEL, SHALL RECEIVE ONE (1) COAT OF PRODUCT #1 (WASH PRIMER) IF CLEANED ONLY WITH SOLVENT. (ALSO BHDS AND DOORS LISTED FOR SCHEME "AA," SECTION "E" OF THIS SCHEDULE).

K. THE ~~HANDRAILS~~ INCL'D. LADDERS IN MACHINERY SPACE ARE TO BE COMPLETELY CLEANED, FREE OF DIRT, WAX AND DEBRIS, AND PAINTED TO SUIT PAINT SCHEME R_1 OR R_2 ACCORDING TO AREA IN WHICH LADDER IS LOCATED. THE HANDRAILS SHALL BE WIPED DOWN WITH APPROVED CLEANER AND POLISHED-NO PAINT (PER TELECON JJ HENRY YARD REP. ON 27 MAR 1970 AND I.R.M. #14-0023 OF 27 MAR 1970.

L. PAINT FOR 3RD AND 4TH COATS FOR SCHEME "X" SHALL BE ACID-FUME RESISTANT ENAMEL.

M. AREAS IN WAY OF INSULATION, SHEATHING, JOINER WORK, SHOWER STALLS ETC., SHALL BE COATED AS LISTED IN SCHEME "Y" OF SECT. "E" OF THIS SCHEDULE. FURTHER INSTRUCTIONS ARE CONTAINED IN SECT. 7 OF REFERENCE #1.

N. WOOD GRATINGS IN LOCKERS AND STOREROOMS TO BE WELL COATED WITH BOILED LINSEED OIL OR OTHER APPROVED PRESERVATIVE. (SPECS. SECT 6-2).

P. PAINTING OF REFRIGERATED STORES, ITEMS #18-22 INCL. ON SHT #7; SECT. F SHALL BE DONE IN CONJUNCTION WITH DECK COVERING REFERENCE NO. 12 AND REFERENCE NO. 1, SECT. 7-3 AND 7-4.

R. WHERE DECK TILE, LATEX MASTIC AND OTHER DECK COVERING IS REQUIRED THE DECK SHALL BE PREPARED TO SUIT THE SPECIFIED DECK COVERING AS SHOWN ON REFERENCE #12.

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GENERAL NOTES

GENERAL NOTE #5 CONT'D.

S. PLENUMS OR FAN ROOMS OPEN TO THE WEATHER SHALL BE COATED WITH SCHEME "AJ" FOR BHDS AND "E" FOR DKS FOR EXTERIOR EXPOSED CONDITIONS. SCHEME "W" & "Z" FOR INTERIOR CONDITIONS. BULKHEADS AND ~~DECKS~~ DECKHEADS BORDERING ON INTERIOR OR HEATED AREAS SUBJECT TO CONDENSATION, SHALL BE LIBERALLY SPRINKLED WITH MICA OR VERMICULITE PELLETS OVER SECOND PRIME (BINDER) COAT. (SEE GENERAL NOTE #4K).

T. DAMAGED GALVANIZED SURFACES SHALL BE SPOT BLASTED AND SPRAYED WITH TWO OUNCES OF ZINC METAL PER SQ. FT. (3.4 MILS). FOR REPAIRS TO GALVANIZED PIPING SEE GENERAL NOTE 9-D.

U. INACCESSIBLE SPACES - WHERE POSSIBLE, SUCH AS UNDER DIAMONDETTE PLATFORM OR STEPS IN STEERING GEAR ROOM APPLY RUST PREVENTATIVE COMPOUND BEFORE WELDING PLATFORM PLATES; OTHERWISE FILL AND DRAIN THESE AREAS OR SPACES.

V. WHERE PAINTING IS REQUIRED IN AREAS ADJACENT TO JOINER WORK SUCH AS BULKHEADS ETC. THE FINAL COAT SHOULD MATCH THE JOINER WORK AS NEAR AS POSSIBLE.

U. MODULES LISTED IN SECT. "G" AND REFERRING TO THIS NOTE, ARE INCLUDED ALTHOUGH NO MODULAR PLANS ARE BEING DEVELOPED. THESE AREAS ARE TO BE BUILT FROM PLANS DRAWN BY CONVENTIONAL METHODS.

W. USE SCHEME "O_1" IN POTABLE WATER TANKS IN AREAS CLEAR OF SURFACES REQUIRED FOR WALKING OR WHERE MATERIAL IS HANDLED DURING CONSTRUCTION. USE SCHEME "O_2" ONLY ON SURFACES WHERE IT WILL BE NECESSARY TO WALK OR WHERE MATERIAL IS HANDLED DURING CONSTRUCTION.

X. DAMAGED AREAS OF FIRST COAT PROD. #40 SHALL BE BLASTED TO SP-5 AND TOUCHED UP WITH 2ND COAT PRODUCT #16. (SCH. "O")

Y. APPLICABLE TO LUBE OIL TANKS AND SUMPS ONLY: PRODUCT #39 MUST BE REMOVED BEFORE APPLICATION OF PRODUCT #30 PRIOR TO CLOSING UP TANKS. PRODUCT #30 WILL THEN BE REMOVED DURING FLUSHING. PRODUCT #39 MAY BE OMITTED IF YARD SO PREFERS. (SEE REPLY TO I.R.M. #S-14-0312 FROM J. J. HENRY DATED 25 SEPTEMBER 1970).

Z. INTERIOR OF SMOKE INDICATOR PIPE TO BE PAINTED FLAT BLACK (FILL & DRAIN), FOR EXTERIOR PAINT, SEE SCHEME "R-2", SECTION "E" SHEET #4.

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GENERAL NOTES

4. EXTERIOR PAINTING (CONTINUED)

Z. IF SAMPLE CASE SHOWS THAT SOLVENT DOES NOT AFFECT BITUMASTIC & "TAR STOP" COMBINATION THEN CLEANING MAY PROCEED AFTER COMPLETION OF "TAR STOP" APPLICATION.

IF "TAR STOP" IS AFFECTED BY SOLVENT & "BLEEDING" CONTINUES TO OCCUR THEN CLEANING PROCESS SHOULD BE COMPLETED PRIOR TO APPLICATION OF "TAR STOP" & PAINT.

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GENERAL NOTES

GENERAL NOTE #10 - PIPE AND CABLE HANGERS

A. ALL CRES AND NON-FERROUS METAL SURFACES IN WEATHER AND OR IN INTERIOR OF WEATHER EXPOSED AREAS SHALL BE COATED WITH SCHEME "J", EXCEPT THE COLOR FOR THE 3RD AND 4TH COATS SHALL SUIT THE PAINT AND COLOR OF THE SURROUNDING AREA. FAYING SURFACES, SUCH AS PIPE TO HANGER, CABLE TO HANGER ETC., ARE TO RECEIVE FINAL COATS PRIOR TO INSTALLATION OF PIPING AND CABLES WHERE PRACTICAL.

B. INTERIOR MILD STEEL PIPE HANGERS, AND INCLUDING PIPE HANGERS INSTALLED IN INSULATION AND BEHIND SHEATHING IN REFRIGERATED SPACES AND COMMISSARY SPACES ARE TO BE PICKLED OR ABRASIVE BLASTED TO SP-6 AND COATED WITH ONE COAT OF PRODUCT #40, 1.0 MIL AND ONE COAT OF PRODUCT #17, 5.0 MILS AND FINISHED COATED TO SUIT APPLICABLE PAINT OF THE AREA OR COMPARTMENT. SPRING HANGERS FOR STEAM AND FEED WATER PIPING TO BE PICKLED OR ABRASIVE BLASTED TO SP-6 AND COATED WITH ONE COAT OF PRODUCT #40, 1.0 MIL.

C. ALL INTERIOR EXPOSED CRES AND NON-FERROUS METAL HANGERS IN LIVING SPACES, TOILET AND SHOWERS, BATHS, REFRIGERATED SPACES, COMMISSARY SPACES, PARTS OF COMPONENTS AND EQUIPMENT, HARDWARE, ETC., ARE TO BE CLEANED AND POLISHED ONLY. (SEE SECTION "E", SHEET 6, SCHEME AP).

D. ALL INTERIOR MILD STEEL CABLE HANGERS SHALL BE PICKLED OR ABRASIVE BLASTED TO SP-6 AND COATED WITH PRODUCT #11, 1.5 MILS, AND FINAL COLOR COATED TO SUIT SURROUNDING AREAS OR COMPARTMENT.

GENERAL NOTE #11 - COVERING OF CHILLED AND RECIRCULATED AIR DUCTS

A. WHERE CHILLED AND RECIRCULATING AIR DUCTS ARE COVERED WITH SECULATE OR EQUAL, IN LIEU OF INSULATION, THEY SHALL NOT BE PAINTED. IF THESE DUCTS ARE IN OPEN AND VISIBLE AREAS, SUCH AS LIVING SPACES, SHOPS, PASSAGES AND CONTROL SPACES AND PAINT IS REQUIRED, THE PAINT SHALL BE THAT SPECIFIED BY THE SECULATE OR EQUAL MANUFACTURER TO SUIT THE COLOR OF THE SURROUNDING AREAS.

GENERAL NOTE #12 - PAINTING OF EQUALIZING DUCTS

A. PAINT THE INSIDE OF THE DUCTS TO SUIT THE SCHEME FOR THE TANKS WHICH ARE CONNECTED BY THE EQUALIZING DUCTS. PAINT THE OUTSIDE OF DUCTS TO SUIT THE SCHEME OF THE COMPARTMENT THROUGH WHICH THE EQUALIZING DUCTS PASS.

GENERAL NOTE #13 - PAINTING OF GAGE BOARDS

A. GAGE BOARDS SHALL BE PAINTED ENTIRELY WITH FLAT BLACK.

GENERAL NOTE #14 - PAINTING OF LIFERAFT CAPACITY.

A. STENCIL IN 1½" HIGH RED LTRS ON DECK IN A CONSPICUOUS PLACE IN THE IMMEDIATE VICINITY OF EACH INFLATABLE LIFERAFT THE FOLLOWING:

INFLATABLE LIFERAFT NO. ___ ← NOTE: 1 STBD 2 PORT
_15_ PERSONS CAPACITY

GENERAL NOTE #15 - PAINTING OF AIR CONDITIONING REHEATERS & CONNECTORS.

A. AIR CONDITIONING REHEATERS & CONNECTORS TO BE PAINTED WITH 1 COAT PRODUCT No.1, 0.3 MILS AND 1 COAT PRODUCT No.11, 1.5 MILS AND TO BE FINISHED COATED IN ACCORDANCE WITH GENERAL NOTE 5-V, THE SAME COLOR AS THE DOOR.

GENERAL NOTES

8. MACHINERY

A. IN MACHINERY SPACES, FINAL COAT OF PAINT MAY BE APPLIED PRIOR TO, OR AFTER TRIALS. ALL SURFACES WHICH BECOME SOILED, OR OTHERWISE DAMAGED, SHALL BE CLEANED AND REPAIRED PRIOR TO DELIVERY OF THE SHIP.

B. THE PREPARATION OF, AND COATING OF ALL MACHINERY AND OTHER EQUIPMENT, ELECTRICAL, ETC., PURCHASED OR VENDOR FURNISHED, SHALL BE IN ACCORDANCE WITH THIS SCHEDULE.

C. MACHINERY SPACE HANDRAILS ARE TO BE PAINTED IN ACCORDANCE WITH SCHEME R-2, EXCEPT THE 4TH AND 5TH COATS ARE TO BE PAINTED BLACK, PRODUCT #24B.

D. LADDER TREADS ARE TO BE PAINTED BLACK, EXCEPT LADDER TREADS BELOW 9'-6" LEVEL ARE TO BE PAINTED RED.

E. PAINT EXPOSED AREAS OF SHAFT IN SHAFT ALLEY EXCEPT FLGS WITH 1 COAT GLYPTOL (BLACK) MIL THICKNESS TO BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FLGS TO BE PAINTED WITH 1 COAT OF FLAT WHITE.

9. VALVES AND PIPING

A. PIPING OR LAGGING, WHERE EXPOSED ABOVE FLOOR PLATE LEVEL AND COMPRESSD GAS CYLINDERS SHALL HAVE COLOR BANDS, 3" WIDE PAINTED TO SUIT THE STANDARD COLORS FOR SYSTEMS AND SPACED TO ENABLE PROPERLY IDENTIFYING THE SYSTEM.

L.O. PIPING SHALL HAVE 2 BANDS 3" WIDE EACH SIDE X SIDE, YELLOW AND PURPLE IDENTIFICATION AND DIRECTION OF FLOW SHALL BE STENCILED WITH LETTERS SIZES ETC TO COMPLY WITH GEN NOTE #18 ON PLAN 30201-90X9.

~~9. VALVES AND PIPING~~

~~A. PIPING OR LAGGING, WHERE EXPOSED TO VIEW ABOVE FLOOR PLATE LEVEL AND COMPRESSED GAS CYLINDERS SHALL BE COLOR BANDED PROD. #37 TO OWNER'S APPROVED STANDARD AND STENCILED FOR IDENTIFICATION AND DIRECTION OF FLOW.~~

(SEE NEXT SHEET)

GENERAL NOTES

GENERAL NOTE #9 CONT'D.

B. PIPING BELOW THE FLOOR PLATES SHALL BE COMPLETELY COATED TO OWNER'S STANDARD COLORS FOR SYSTEMS AS FOLLOWS:

LINE NO.	SERVICE	PRODUCT NAME	MANUFACTURER	MFRS. DESCRIP.	COLOR	PROD. NO.
1	LIVE STEAM	ACTIVATED HI-BUILD EPOXY MASTIC	INTERNATIONAL	INTERGARD	RED	29R
2	EXHAUST STEAM	↓	↓	↓	DARK BLUE	29DB
3	FUEL OIL	↓	↓	↓	BLACK	29B
4	SEA WATER/ BALLAST	↓	↓	↓	GREEN	29G
5	BOILER WATER	↓	↓	↓	YELLOW	29Y
6	POTABLE WATER	↓	↓	↓	LIGHT BLUE	29LB
7	LUBE OIL	↓	↓	↓	~~YELLOW/ PURPLE STR~~	29YP 37
8						

COMPLETELY YELLOW W/A PURPLE BAND 3" WIDE SPCD TO ENABLE PROPER IDENTIFICATION OF SYSTEM

C. HANDWHEELS ON VALVES IN PIPING SYSTEMS AND MANIFOLDS ABOVE AND BELOW FLOOR PLATES ARE TO BE COATED AS SPECIFIED IN SUB-PARAGRAPH 9-B ABOVE.

D. GALVANIZING - PIPING

WHERE PIPING SYSTEMS ARE SPECIFIED TO BE GALVANIZED, THE VARIOUS SECTIONS AND ASSEMBLIES SHALL BE COMPLETELY FABRICATED WITH ALL FLANGES ATTACHED AND HOT DIPPED GALVANIZING AFTER ALL WELDING IS COMPLETED. WHERE THIS IS NOT PRACTICABLE, UPON SPECIFIC OWNER APPROVAL, GALVANIZING DESTROYED BY WELDING SHALL BE TOUCHED-UP WITH AN APPROVED GALVANIZING REPAIR COMPOUND, 2 COATS OF INTERGARD #4441 OR SHALL BE SPRAYED WITH ZINC TO A THICKNESS OF AT LEAST 0.006 INCH (3.0 OUNCE OF ZINC PER SQUARE FOOT) PROPERLY SCALED.

ALL PIPING SHALL BE THOROUGHLY PICKLED BEFORE GALVANIZING TO COMPLETELY REMOVE ALL MILL SCALE WELD SLAG AND HEAT SCALE.

E. ALL ARMOFLEX PIPE COVERING TO BE PAINTED WITH LATEX PAINT. (ARMSTRONG ARMAFLEX FINISH)

GENERAL NOTES

7. CEMENTING & FILLING (CONTINUED)

D. CEMENT TO BE ADDED TO BOTTOM OF DUMBWAITER, FR. 40 STBD. CEMENT MUST BE GRADED TOWARDS THE DECK DRAIN TO FACILITATE PROPER DRAINING. THE DEPTH OF THE CEMENT SHALL BE KEPT TO A MINIMUM.

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PAINT SCHEMES - EXTERIOR/WEATHER EXPOSED

REVISION			LINE NO.	PAINT SCHEME	COMPT. SURFACES & REMARKS	1ST COAT NO.	1ST COAT MATL.	2ND COAT NO.	2ND COAT MATL.	3RD COAT NO.	3RD COAT MATL.	4TH COAT NO.	4TH COAT MATL.	5TH COAT NO.	5TH COAT MATL.	GEN. NOTE	SPECS. SECT.
			1	A	UNDERWATER HULL KEEL TO LIGHT LOAD LINE	#11	P.E.P. 1.5 MILS	#12 *	U.W.P. TOUCH-UP	#12 *	U.W.P. 2.0 MILS	#12	U.W.P. 2.0 MILS	#12	U.W.P. 2.0 MILS	2-C 3-B 4-C	14-7
A	H		2		TOTAL THICKNESS - 9 MILS	6TH COAT #14	A.F. 1.5 MILS	*	THESE COATS TO	BE REDUCED 10% WITH INTL	SOLVENT PROD #	11A				4-D 2-F	
C			3		PAINT SCHEME FOR FLAT PLATE KEEL IN WAY OF KEEL BLOCKS	#11	P.E.P. 1.5 MILS	#12	U.W.P. 1.5 MILS	#12	U.W.P. 2.0 MILS	#12	U.W.P. 2.0 MILS	#12	U.W.P. 2.0 MILS	2-C 3-B	
			4		TOTAL THICKNESS - 12 MILS	6TH COAT #38	A.F. 1.5 MILS	7TH COAT #38	A.F. 1.5 MILS							3-E 4-C 4-W	
			5														
A			6	A_1	AT FIRST DRY-DOCKING BEFORE DELIVERY-PATCH UP OF DAMAGED OR MISSED AREAS	#12	U.W.P. TOUCH-UP 2.0 MILS	#12	U.W.P. TOUCH-UP 2.0 MILS	#12	U.W.P. TOUCH-UP 2.0 MILS	#13	U.B.C. 1.5 MILS	#14	A.F. RED 1.5 MILS	3-A 4-C 4-D	14-7
			7		AND FULL COATS ~~TOTAL THICKNESS - 9 MILS~~												
			8		TOTAL ADDED THICKNESS - 9 MILS AT TOUCH-UP SPOTS, OTHERWISE 3 MILS												
			9														
A			10	A_2	AT FINAL DRY-DOCKING, IF AFTER FOUR MONTHS FROM 1ST D.D. - PATCH UP OF	#12	U.W.P. TOUCH-UP 2.0 MILS	#12	U.W.P. TOUCH-UP 2.0 MILS	#12	U.W.P. TOUCH-UP 2.0 MILS	#13	U.B.C. 1.5 MILS	#14	A.F. RED 1.5 MILS	3-A 4-C 4-D	14-7
			11		DAMAGED AREAS AND FULL COATS ~~TOTAL THICKNESS - 3 MILS~~												
			12		TOTAL ADDED THICKNESS - 9 MILS AT TOUCH-UP SPOTS, OTHERWISE 3 MILS												
			13														
A			14	A_3	AT EACH ADDITIONAL DRY-DOCKING BEFORE DELIVERY IF WITHIN FOUR MONTHS FROM 1ST	#12	U.W.P. TOUCH-UP 2.0 MILS	#12	U.W.P. TOUCH-UP 2.0 MILS	#12	U.W.P. TOUCH-UP 2.0 MILS	#13	U.B.C. 1.5 MILS	#14	A.F. RED 1.5 MILS	3-A 4-C 4-D	14-7
			15		DRY-DOCKING TO PATCH UP OF DAMAGED AREA												
			16		TOTAL ADDED THICKNESS - 9 MILS AT TOUCH-UP SPOTS, OTHERWISE 3 MILS												
S			17		RUDDER EXTERIOR (LYKES 20 ONLY)	#45	E.P. 2 MILS	#46	V.A.F. 12 MILS								

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS. J	LYKES - PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. E	REV S	SHEET 1

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NUMERICAL LIST OF PRODUCTS

REVISION			PRODUCT NO.	PRODUCT NAME	ABBREVIATION	MANUFACTURER	MFR'S DESCRIPTION OR CODE NO.	COLOR	REMARKS
A			15	ACTIVATED EPOXY PRIMER	A.E.P.	INTERNATIONAL	4400/4414	~~BROWN~~ ORANGE	
			16	ACTIVATED EPOXY TANK COATING USPHS APPROVED	E.T.C.	INTERNATIONAL	4421/4423	PALE BLUE	
			17	ACTIVATED EPOXY TANK COATING USPHS APPROVED	E.T.C.	INTERNATIONAL	4424/4423	WHITE	
C			18	HI-BUILD ACTIVATED EPOXY AND BINDER COAT	H.B.A.E.B.C.	INTERNATIONAL	4436/4414		REF #28
B			19	ACTIVATED EPOXY FINISH	A.E.F.	INTERNATIONAL	4408/4416	WHITE	
			20	ACTIVATED HI-BUILD EPOXY MASTIC	A.H.B.E.M.	INTERNATIONAL	4419/4414	RED - BROWN	
C			21	ALKYD ENAMEL	A.E.	INTERNATIONAL ~~PATTERSON-SARGENT~~	937 ~~RX-50~~ LANGOLINE	WHITE	REF #28
			21A	ALKYD ENAMEL	A.E.	~~PATTERSON-SARGENT~~	937 ~~RX-50~~ ACID RESISTANT	WHITE	REF #28
			21B	ALKYD ENAMEL	A.E.	INTERNATIONAL-LYKES ENGINE	X-7142	GREEN	
			22	INORGANIC ZINC SILICATE, POST CURED	IN. ZINC.	AMERCOAT	DIMETCOTE #3	GRAY	
			22A	INORGANIC ZINC SILICATE, SELF CURED	IN. ZINC.	AMERCOAT	DIMETCOTE #6	GRAY	
			23	SPECIAL PRIMER OVER INORGANIC ZINC	S.P./IN.ZINC	AMERCOAT	TIE-COAT #86	RED	
			23A	MARINE PRIMER	M.P.	AMERCOAT	AMERCOAT #86	RED	
			24	VINYL ACRYLIC	V.A.	AMERCOAT	AMERCOAT #35	RED	
			24B					BLACK	
			24C	↓	↓	↓	↓	ALUM-GRAY	
			24D	~~RES (NOT USED)~~				WHITE	
			25	(RES)					NOT USED
			26	NON-SKID EXTERIOR COATING	N.S.E.C.	CARBOLINE	3615	GRAY	
A			27	BINDER PAINT	B.P.	CADILLAC	52-MC-280	~~CLEAR~~	
			28	SPAR VARNISH	S.V.	PACKARD	52-MA-302A	CLEAR	
A			29	EPOXY COATING	E.C.	INTERNATIONAL	4419/4414	RED	SEE GENL NOTE #9-B
			30	RUST PREVENTIVE COMPOUND	R.P.C.	FREEDOM-VALVOLINE	MIL-C-16173 TECTYL#502-C;GR II	-	
			30A	RUST PREVENTIVE COMPOUND	R.P.C.	FREEDOM-VALVOLINE	MIL-C-16173 TECTYL#890 GR I	-	

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS. B. J.	LYKES-PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. D	REV. C	SHEET 2

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NUMERICAL LIST OF PRODUCTS

REVISION			PRODUCT NO.	PRODUCT NAME	ABBREVIATION	MANUFACTURER	MFR'S DESCRIPTION OR CODE NO.	COLOR	REMARKS
A			31	EPOXY COATING	E.C.	INTERNATIONAL	4413/4414	~~BROWN~~ BLACK	
			32	EPOXY PRIMER	E.P.	AMERCOAT AMERCOAT	83	OXIDE RED	
			33	EPOXY FINISH	E.F.	AMERCOAT AMERCOAT	84	GLOSS WHITE	
			34	ASPHALT EMULSION	ASPH. EM.	FLINTKOTE	NO. C-13-HPC	BLACK	
			35	CLEAR PLASTIC	C.P.	BORDEN CHEMICAL CO.	KRYLON	—	
			36	ASPHALT VARNISH	A.V.		FED SPEC TT-V-51A	BLACK	
A			37	TAPE (STRIPES)					SECT. "C", SHT. 13 LINE 7
C			38	OFFSHORE ANTIFOULING	A.F.	INTERNATIONAL	1605	RED	
C			39	ZINC CHROMATE PRIMER-ALKYD	Z.C.		FED. SPEC TT-P-645		
C			40	FAST DRYING ~~EPOXY~~ TANK COATING USPHS APPROVED - PRIMER	~~E~~.T.C.P.	INTERNATIONAL	PW-4437	RED-BROWN	
D			41	NON SKID COATING	N.S.C.	CARBOLINE	3615	BRICK RED #516	
E			42	GALVANIZE REPAIR COMPOUND		INTERNATIONAL	4441		
F			43	INORGANIC ZINC SILICATE (SINGLE PACKAGE)	IN. ZINC. (S.P.)	AMERCOAT	DIMETCOTE #1	ZINC GRAY	
G			44	CHLORINATED RUBBER	C.R.	CARBOLINE	3630	CARBOLINE GRAY	
S			45	EPOXY PRIMER	E.P.	SOUTHERN IMPERIAL COATINGS	1220		
S			46	VITRON ANTIFOULING	V.A.F.	↓	1231		
S			47	NON SKID PAINT	N.S.P.	INTERNATIONAL	3034		

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NUMERICAL LIST OF PRODUCTS

REVISION			PRODUCT NO.	PRODUCT NAME	ABBREVIATION	MANUFACTURER	MFR'S DESCRIPTION OR CODE NO.	COLOR	REMARKS
A	H		1	WASH PRIMER	W.P.	INTERNATIONAL	MIX 1757/1758	YELLOW	
A			2	ZINC CHROMATE PRIMER	Z.C.P.	DEVOE & RAYNOLDS	MD-602		
			3	RED LEAD PRIMER	R.L.P.				NOT USED
A			4	EPOXY PRIMER	E.P.	INTERNATIONAL	HF-RD-4437	RED - OXIDE ~~BROWN~~	
			5	BITUMINOUS EPOXY	B.E.	INTERNATIONAL	4413/4414	BLACK	
			6	ALUMINUM ALKYD	A.A.				NOT USED
			7	HEAT RESISTANT ALUMINUM	H.R.A.	DEVOE & RAYNOLDS	MD-113	ALUMINUM	
			8	HIGH HEAT RESISTANT-SILICONE ALUMINUM	H.H.R.S.A.	DEVOE & RAYNOLDS	MIL-P-14276 (TT-P-28D)	ALUMINUM	
			9	RES. (NOT USED)	-				NOT USED
C			10	COAL TAR EMULSION	C.T.E.	~~KOPPERS CO.~~ INTERNATIONAL	~~BITUPLASTIC #28~~ 1043	BLACK	REF #28
A			11	PRE-ERECTION PRIMER	P.E.P.	INTERNATIONAL	RD-4437	RED- OXIDE ~~BROWN~~	
			11A	EPOXY SOLVENT	E.S.	INTERNATIONAL	4415	—	
A B			11B	EPOXY SOLVENT (HIGH FLASH)	E.S.	INTERNATIONAL	HF-4415	—	USE WITH PRODUCT #4
			12	UNDERWATER PRIMER	U.W.P.	INTERNATIONAL	1744	SILVER-GRAY	
			12A	HIGH BUILD UNDERWATER PRIMER	H.B.U.P.	INTERNATIONAL	HB-1744	SILVER-GRAY	
			13	UNDERWATER BARRIER COAT(ANT-CORROSIVE)	U.B.C.	INTERNATIONAL	1606	BLACK	
			14	ANTI-FOULING	A.F.	INTERNATIONAL	1609	BRICK RED	

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS. J.	LYKES-PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT D	REV. H	SHEET 1

GENERAL DYNAMICS, QUINCY DEC., 1973 6X
MA NO.241-519-1-1 GD NO. 30261-01x1
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PAINT SCHEMES - INTERIOR

REVISION	LINE NO.	PAINT SCHEME	COMPARTMENT SURFACES & REMARKS	1ST COAT NO.	1ST COAT MATL.	2ND COAT NO.	2ND COAT MATL.	3RD COAT NO.	3RD COAT MATL.	4TH COAT NO.	4TH COAT MATL.	5TH COAT NO.	5TH COAT MATL.	GEN NOTES	SPECS. SECT.
A S	1	M	TANKS DESIGNATED FOR RESERVE FEED, ~~CHAIN LOCKER~~	#11	P.E.P. 1.5 MILS	#17	E.T.C. WHITE 5.0 MILS	#16	E.T.C. BLUE 5.0 MILS					5-B 5-C	14-14
S	2		~~CHAIN LOCKER SUMP,~~ AND BALLAST TANKS 1 P/S, 2 C.L., 3 P/S, 6 P/S, 8 P/S												
B	3		10 P/S, AND 11 P/S ELEVATOR STRUCTURE TOTAL 11.5 MILS												
A	4	N	COFFERDAMS, VOIDS, PEAK TANKS, AND BALLAST TANKS 2 P/S, 4 P/S, 5 P/S, 7 P/S	#11	P.E.P. 1.5 MILS	#12A	H.B.U.P. (TOUCH-UP)	#12A	H.B.U.P. 4.0 MILS					5-B 5-C 5-G	14-14
	5		8 C.L., 9 P/S, 9 C.L. AND 12 P/S TOTAL 5.5 MILS			SEE GENERAL NOTE 5-X									
C	6	O	TANKS DESIGNATED FOR POTABLE WATER AND DISTILLED WATER TOTAL 10 MILS	#40	T.C.P. RED-BROWN 1.0 MILS	#16	E.T.C. BLUE (TOUCH-UP)	#17	E.T.C. WHITE 5.0 MILS	#16	E.T.C. BLUE 4.0 MILS			5-B 5-E 5-C	14-14
A	7	P	SEWAGE HOLDING TANKS FRS 46-52 P/S TOTAL 10.5 MILS	#11	P.E.P. 1.5 MILS	#4	E.P. (TOUCH-UP)	#5	B.E. 9.0 MILS					5-B 5-C	14-14
A C	8	Q	TANKS DESIGNATED FOR FUEL OR LUBE OIL &	#39	Z.C. .75 TO 1.0 MILS	#30	TECTYL #502-C 2.0 MILS	PROD. #30 WILL THEN BE REMOVED DURING FLUSHING OPERATIONS, SEE GENERAL NOTE 5-F. MAINTAIN THIS COAT OF R.P.C. AS NEEDED DURING INTERIM PERIOD BET. COMPLETION OF TANKS & FINAL DELIVERY OF SHIP.						SEE SECT 57 OF	14-14 REF #14
	9		STABILIZER TANKS	(SEE GENL NOTE 5-Y)										REF #1	
A	10	R_1	MACHINERY SPACE, BOW THRUSTER ROOM, SHAFT ALLEY, FOUNDATIONS, DRAIN WELLS	#11	P.E.P. 1.5 MILS	#4	E.P. (TOUCH-UP)	#20	A.H.B.E.M. 6.0 MILS					5-H 5-D	14-15
B	11		STRAINERS, AND OTHER STEEL SURFACES BELOW FLOOR PLATE LEVEL ONLY, EXCEPT											9-B 7-C	REF#15
	12		PIPING TOTAL 7.5 MILS												
A H	13	R_2	MACHY SPACE, BOW THRUSTER ROOM, SHAFT ALLEY, FOUNDATIONS, DRAIN WELLS,	#11	P.E.P. 1.5 MILS	#4	E.P. (TOUCH-UP)	#4	E.P. 1.5 MILS	21B	A.E. 1.5 MILS	21B	A.E. 1.5 MILS	5-H 5-D	14-15
	14		STRAINERS, SMOKE PIPE INDICATOR EXTERIOR AND OTHER STEEL SURFACES ABOVE FLOOR												REF #15 7-5
	15		PLATE LEVEL ONLY EXCEPT PIPING TOTAL 6.0 MILS		(FOR INTERIOR OF SMOKE PIPE INDICATOR SEE GEN NOTE #52)										
H	16	AR	ALL MILD STEEL HANGERS, (PIPE ONLY)	#40	T.C.P. RED-BROWN 1.0 MIL	#17	E.T.C. WHITE 5.0 MIL	FINAL COATS TO SUIT SURROUNDINGS						10-B 10-C 3-E	
H	17	AS	ALL MILD STEEL CABLE HANGERS	#11	P.E.P. 1.5 MILS			FINAL COATS TO SUIT SURROUNDINGS						10-C 10-D	

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS.	LYKES - PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. E	REV. S	SHEET 4

PAINT SCHEMES - EXTERIOR/WEATHER EXPOSED

REVISION	LINE NO.	PAINT SCHEME	COMPT SURFACES & REMARKS	1ST COAT NO.	1ST COAT MATL.	2ND COAT NO.	2ND COAT MATL.	3RD COAT NO.	3RD COAT MATL.	4TH COAT NO.	4TH COAT MATL.	5TH COAT NO.	5TH COAT MATL.	GEN NOTE	SPECS. SECT.
A H S	1	G	OTHER DECKS AS FOLLOWS: MAIN AND LOWER BARGE DECKS, MAIN DECK	#22A	IN. ZINC 2.5 MILS	#23	S.P. 0.5 MILS	#26 or #47	N.S.E.C. 7.0 MILS		COLOR TO BE LIGHT GRAY			4-J 4-M 4-K	14-10
	2	↓	MOORING STATIONS AND CABIN DECK ANCHOR WINDLASS STATIONS, STORES					SEE GEN NOTE # 4M							
	3	↓	LOADING AREAS - CABIN DECK FRS 23-27 TOTAL - 11.0 MILS												
A H	4	H_1	STEEL WINGWALLS, COLUMNS, BHDS ~~AND~~ ~~[illegible]~~ OF LOWER & MAIN											4-K 4-N	14-10
	5	↓	BARGE DECKS, WINDLASS MACHY SPACE, MOORING MACHY SPACES												
A H C D	6	↓	ON MAIN DECK ~~(1)~~ TO 24" ABOVE DECK	#22A	IN. ZINC 2.5 MILS	18 ~~#32~~	E.P. 4.0 MILS ~~RED OXIDE~~	19 ~~#33~~	E.F. 2.0 MILS					4-J	REF #28
	7	↓	TOTAL 8.5 MILS						~~GLOSS~~ WHITE						
	8	H_2	STEEL WINGWALLS, COLUMNS, BHDS AND OVERHDS OF LWR & MN BARGE DECKS, WINDLASS MACHY SPC, MOORING MACHY SPACES ON MAIN DK												
H C D	9	↓	~~(2)~~ FROM 24" ABOVE DECK & OVERHEAD, INCLUDING	#11	P.E.P. 1.5 MILS	18 ~~#32~~	E.P. 4.0 MILS	19 ~~#33~~	E.F. 2.0 MILS						REF #28
	10	↓	WIREWAYS, WALKWAYS, PIPING ETC IN MAIN & LOWER BARGE DK AREAS TOTAL 7.5 MILS				~~RED OXIDE~~		~~GLOSS~~ WHITE						
A F	11	I	ALL OUTSIDE EXPOSED STEEL OR CAST IRON NOT INCLUDED IN ITEMS LISTED ABOVE.	#22A	IN ZINC 2.5 MILS	#23A	M.P./IN. ZINC 1.5 MILS	#24C	V.A. 1.25 MILS	#24C	V.A. 1.25MILS			4-P	14-10 REF #16
A C	12	↓	LOWER AND MAIN BARGE DECKS, ~~MOORING STATIONS~~ AND ANCHOR WINDLASS STATION, MOORING WINCHES						(AL GRAY) (LYKES)		(AL GRAY) (LYKES)				REF #15
	13	↓	INCLUDES DECK MACHINERY, BOTH SIDES OF W.T. DOORS & HATCH COVERS, ETC.,												
	14	↓	~~[illegible] GRATINGS IN BARGE AREAS~~ TOTAL 6.5 MILS												
F H	15	J	ALL EXPOSED CRES & NON-FERROUS METAL SURFACES ~~WHERE NATURAL FINISH IS NOT~~	#1	W.P. 0.3 MILS	#23A	M.P. 1.5 MILS	#24C	V.A. 1.25MILS	#24C	V.A. 1.25MILS			4-R	14-11
	16	↓	~~APPROVED AS FINAL.~~ (SUCH AS CABLE HANGERS, PIPING, HANDRAILS, ACCOMMODATION		TO 0.5 MILS				(AL GRAY) (LYKES)		(AL GRAY) (LYKES)			10-A	
A	17	↓	LADDERS, ETC.) SCH "J" CONTD. ON SHT. #3 TOTAL 4.5 MILS												

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS. B. J.	LYKES-PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. E	REV S	SHEET 2

PAINT SCHEMES - EXTERIOR/WEATHER EXPOSED

REVISION	LINE NO.	PAINT SCHEME	COMPT SURFACES & REMARKS	1ST COAT NO.	1ST COAT MATL.	2ND COAT NO.	2ND COAT MATL.	3RD COAT NO.	3RD COAT MATL.	4TH COAT NO.	4TH COAT MATL.	5TH COAT NO.	5TH COAT MATL.	GEN NOTES	SPECS. SECT.
A H	1	"J" CONT'D	ABRASIVE TREADS NOT TO BE PAINTED- ALUMINUM PORTIONS OF ELEV PLATFORMS		- ~~FOR COATINGS SEE SHT #2, LINE #15 & 16~~									4-U	REF #21
	2	K	DIESEL ENGINE EXHAUST TOTAL 3 MILS	(NO PRIMER REQ'D)		#8	H.H.R.A. 1.5 MILS	#8	H.H.R.A. 1.5 MILS						14-11
A	3	L	WIRE ROPE - RUNNING RIGGING THROUGH-OUT	(AS RECOMMENDED BY SUPPLIER OF EQUIPMENT UTILIZING WIRE ROPE) (AND APPROVED BY OWNER UNLESS OTHERWISE SPECIFIED)										4-T ✓	14-11 9-2 ✓
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														

GENERAL DYNAMICS QUINCY DIVISDN, QUINCY, MASS. J.	LYKES PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. E	REV H	SHEET 3

PAINT SCHEMES - EXTERIOR/WEATHER EXPOSED

REV.	LINE NO.	PAINT SCHEME	COMPARTMENT SURFACES & REMARKS	1ST COAT NO.	1ST COAT MATL.	2ND COAT NO.	2ND COAT MATL.	3RD COAT NO.	3RD COAT MATL.	4TH COAT NO.	4TH COAT MATL.	5TH COAT NO.	5TH COAT MATL.	GEN. NOTE	SPECS. SECTION
F	1	AN	TRANSPORTER TRACK IN FACILITY	43	IN ZINC .75 MILS		↔				↔		↔	3-E	
F	2		TRANSPORTER TRACK BOTTOM (FAYING) SURFACE PRIOR TO INSTALL			22A	IN ZINC 2.5 MILS	23	SP/IN ZINC AMERCOAT TIE COAT #86		↔		↔		
F G	3		TRANSPORTER TRACK INSTALL. AFTER WELDING.			22A	IN-ZINC 25 MILS	23	SP/IN ZINC AMERCOAT TIE COAT #86	44	C.F. 1.5 MILS		↔		
	4														
	5														
	6														
	7	B	BOW THRUSTER TUNNEL AND SHELL FAIRING (EXCEPT CRES WEARING RING) AND TRASH	#15	E.P. 2.0.MILS	#5	B.E. 8.0.MILS	#5	B.E. 8.0.MILS	#12	U.P. 1.5 MILS	#14	A.F.(RED) 1.5 MILS	2-C, 3-B	14-8 14-12; LINES
	8		BARS WHERE EXPOSED TO SEA WATER; SEA CHESTS; RUDDER AND FAIRING PIECES; UNDERWATER STERN AREA AFT OF STERN TUBE											4-D	23,24, 30,31
	9		BELOW LIGHT LOAD LINE TOTAL THICKNESS 21 MILS												
	10														
C A F	11	C	LIGHT LOAD LINE TO DEEP LOAD LINE (BOOT TOPPING)-SEE GENERAL NOTE #4-E TOTAL THICKNESS 6.5 MILS	#22A	IN ZINC 2.5 MILS	#23A	M.P. 1.5 MILS	#24	V.A. (RED) 1.25 MILS	#24	V.A. (RED) 1.25 MILS			2-C, 3-B, 4-G,	14-2; LINES 6-10 NO.1&
A F B	12	D	DEEP LOAD LINE TO RAIL, ANCHORS, ~~ELEVATOR STRUCTURE~~ (FOCLE BULWARK-SEE SECT E SHT 6, LINE #7) TOTAL THICKNESS 6.5 MILS	#22A	IN ZINC 2.5 MILS	#23A	M.P. 1.5 MILS	#24B	V.A. (BLACK) 1.25 MILS	#24B	V.A. (BLACK) 1.25 MILS		REF #16	3-B 4-H	14-8; 14-12 LINES 36-41 14-13 " 23-25
A H S	13	E	EXPOSED STEEL DECKS (UPPER DECK AND ABV) INCLUDING HOUSE TOPS	#22A	IN ZINC 2.5 MILS	#23	S.P. 0.5 MILS	#26 or #47	N.S.E.C. 7.0 MILS	COLOR TO BE LIGHT GRAY				4-L 4-J 4-K	14-9; 14-12 L 40-42 14-13 L 20+21
A	14		STEEL PORTIONS OF ELEVATOR PLATFORM, BOAT SERVICING PLATFORMS TOTAL THICKNESS 11.0 MILS					SEE GEN NOTE # 4M						SEE SCH "J"	
A F H	15	F	ALL OUTSIDE EXPOSED STEEL (DECK HOUSE BHDS) OR CAST IRON OTHER THAN LISTED	#22A	IN ZINC 2.5 MILS	#23A	M.P./IN ZINC 1.5 MILS	#24C	V.A. 1.25 MILS	#24C	V.A. 1.25 MILS		COLOR AL-GRAY, LYKES	4-N 4-L 4-J	14-9
H	16		ABOVE, UPPER DECK, POOP & FORECASTLE DECKS, INCL DECK MACHY, BOTH SIDES OF											4-P 4-K	
	17		W.T. DOORS & HATCH COVERS TOTAL THICKNESS 6.5 MILS												

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS. J.	LYKES-PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. E	REV S	SHEET 1-A

GENERAL DYNAMICS, QUINCY DEC., 1973 6X
MA NO. 241-519-1-1 GD NO 30261-01x1 Sheets 49-52 of 103 FRAME ① 2 3 4

COMPARTMENT PAINTING - DECK - TANKS & COMPTS UP TO LOWER DK

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME BHD/OVHD	SCHEME DK	REMARKS
	1	FORE PEAK TANK	℄	N	N	STEM FR 22
	2	VOID COMPT UNDER CHAIN LKR SUMP	P/S	N	N	FR 22-24
A B	3	BOW THRUSTER ROOM	P/S	R1 + R2	S	FR 24-28
		BOW THRUSTER TUNNEL	P/S	B	B	FR 26-28 (INTERIOR)
	4	BALLAST TANK NO. 1	P	M	M	FR 28-34 ↓
	5	BALLAST TANK NO. 1	S	M	M	
	6	BALLAST TANK NO. 2	℄	M	M	FR 34-40 ↓
	7	BALLAST TANK NO. 2	P	N	N	
	8	BALLAST TANK NO. 2	S	N	N	
	9	FUEL OIL TANK NO. 3	℄	Q	Q	FR 40-46 ↓
	10	BALLAST TANK NO. 3	P	M	M	
	11	BALLAST TANK NO. 3	S	M	M	
	12	FUEL OIL TANK NO. 4	℄	Q	Q	FR 46-52 ↓
	13	SEWAGE HOLDING TANK	P	P	P	
	14	SEWAGE HOLDING TANK	S	P	P	
	15	BALLAST TANK NO. 4	P	N	N	
	16	BALLAST TANK NO. 4	S	N	N	
	17	FUEL OIL TANK NO. 5	℄	Q	Q	FR 52-58 ↓
	18	BALLAST TANK NO. 5	P	N	N	
	19	BALLAST TANK NO. 5	S	N	N	
F	20	FUEL OIL SETTLING TANK ~~TANK NO. 6~~	℄	Q	Q	FR 58-64

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME BHD/OVHD	SCHEME DK	REMARKS
	21	BALLAST TANK NO. 6	P	M	M	FR 58-64 ↓
	22	BALLAST TANK NO. 6	S	M	M	
	23	COFFERDAM	P/S	N	N	FR 64-70
	24	COFFERDAM AROUND POTABLE WATER TANK	P/S	N	N	FR 64-67
	25	POTABLE WATER TANK	℄	O	O	FR 64 1/2- FR 67 1/2
	26	BALLAST TANK NO. 7	P	N	N	FR 64-70 ↓
	27	BALLAST TANK NO. 7	S	N	N	
A C	28	STABILIZER DUCT (UNDER STABILIZER) & TANK	P/S	Q	Q	FR 67-70 ↓ ~~RES. #1~~
A C B	29	STABILIZER CONTROL ~~EQUIP~~ RM	C.L.	R2	Z	SEE SHT 2 LINE "35
	30	RESERVE FEEDWATER	P	M	M	FR 71-75
	30A	RESERVE FEEDWATER	S	M	M	FR 71-75
	31	COFFERDAM	P	N	N	FR 70-76 ↓
	32	COFFERDAM	S	N	N	
A C	33	SLUDGE TANK & L.O. SLUDGE TANK	℄	Q	Q	FR 76-79
	34	FUEL OIL OVERFLOW TANK	P	Q	Q	FR 76-81
	35	COFFERDAM	S	N	N	FR 76-82
	36	COFFERDAM	S	N	N	FR 79-82
	36A	COFFERDAM	P	N	N	FR 79-82
	37	COFFERDAM	℄	N	N	FR 82-~~88~~ 99
C	38	FIRE & HEELING PUMP RM	℄	R1 + R2	FLAT S	FR 82-84
A C	39	SHAFT ALLEY	℄	R1+R2	FLAT S	FR 84-99
	40	BALLAST TANK NO. 8	℄	N	N	FR 84-88

GENERAL DYNAMICS
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PAINT SCHEMES - INTERIOR

REVISION	LINE NO.	PAINT SCHEME	COMPARTMENT SURFACES & REMARKS	1ST COAT		2ND COAT		3RD COAT		4TH COAT		5TH COAT		GEN. NOTES	SPECS. SECT.
				NO.	MATL.	NO.	MATL.	NO.	MATL.	NO.	MATL.	NO.	MATL.		
	1	AT	CHAIN LOCKER & CHAIN LOCKER SUMP	#11	P.E.P. 1.5 MILS	#10	C.T.E. BLACK 7.0 MILS	#10	C.T.E. BLACK 7.0 MILS						
	2	AU	CABLEWAY & PIPE SPACE	#11	P.E.P. 1.5 MILS	#5	B.E. 6.0 MILS								
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														

GENERAL DYNAMICS
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PAINT SCHEMES - INTERIOR AND EXTERIOR

REVISION	LINE NO.	PAINT SCHEME	COMPT SURFACES & REMARKS	1ST COAT		2ND COAT		3RD COAT		4TH COAT		5TH COAT		GEN NOTES	SPECS. SECT.
				NO.	MATL.	NO.	MATL.	NO.	MATL.	NO.	MATL.	NO.	MATL.		
H	1	AB	OUTSIDE OF INNER STACKS TOTAL 4 MILS	#8	H.H.R.S.A. 2.0 MILS	#8	H.H.R.S.A. 2.0 MILS							4-X	14-18
	2	AC	INTERIOR OF MASTS, CRANE TUB PEDESTALS, AND EXTERIOR DECK DRAINS (3" IPS & ABOVE)	#11	P.E.P. 1.5 MILS	#4	E.P. TOUCH-UP	#10	C.T.E. 14.5 MILS						14-18
	3	↓	TOTAL 16 MILS	OR #4	E.P. 1.5 MILS										
H	4	AD	RUDDER & SPACE BET. SHAFT TUBE & PROPELLER SHAFT TOTAL (NONE)	(FILL AND DRAIN WITH PRODUCT #30A RUST PREVENTIVE COMP)										4-U 4-G	14-18
G	5	AE	STEEL DECKS & BHDS IN WAY OF INSUL IN REFRIGERATED STORES	#11	P.E.P. 1.5 MILLS	#34	A. E. (TO SUIT MANUFACTURER'S REQMTS)							5-P	7-3 & 7-4
A H S	6	AF	MOORING STATIONS (BHDS & OVERHDS)	#22A	IN ZINC 2.5 MILS	#23A	S.P./IN ZINC 0.5 MILS	#24C	AL GRAY 1.25 MILS	#24C	AL GRAY 1.25 MILS			4-K	REF #15
A	7	↓	FORECASTLE BULWARK (INBOARD & OUTBD)	#22A	IN ZINC 2.5 MILS	#23A	S.P./IN ZINC 1.5 MILS	#24D	V.A. WHITE 1.25 MILS	#24D	V.A. WHITE 1.25 MILS				REF #15
A	8	AG	SKEG-INTERIOR	#11	P.E.P. 1.5 MILS	#12A	H.B.U.P. (TOUCH-UP)	#12A	H.B.U.P. 4.0 MILS						14-14
A	9	AH	(REFER TO GENERAL NOTE 5-D)												
A H	10	AJ	PLENUMS, FAN ROOMS - (AREAS OPENED TO WEATHER)	#22A	IN ZINC 2.5 MILS	#23A	S.P./IN ZINC 1.5 MILS	#24D	V.A. WHITE 1.25 MILS	#24D	V.A. WHITE 1.25 MILS			4-K 5-S	REF#21
N	11	AM	SLOPING DK AREA OF FLAT 11'-2" BELOW LOWER DK FROM 12" AFT FR 98 TO BHD 99, OUTBD FROM ℄ SHIP TO LONG. BHD 19'-4 3/4" OFF ℄ SHIP. (PORT ONLY)	#22A	IN ZINC 2.5 MILS	#23	S.P. 0.5 MILS	#41	N.S.C. 7.0 MILS						
A H	12	AK	INACCESSIBLE SPACES - INCLUDING THAT PORTION OF POST OF ELEV. THAT IS NOT		(FILL AND DRAIN WITH PRODUCT #30A - RUST PREVENTIVE COMP)									4-U 5-U 4-G	
B	13		ACCESSIBLE, INACCESSIBLE VOIDS IN THE ENDS OF ELEVATOR BOX GIRDERS, BOW CHOCKS,												
	14	↓	SPONSON FOR FENDERS, INTERIOR FDNS.												
C -	15	AL	GALVANIZED EXPANDED METAL BHDS & E.M. DOORS IN MACHY SPACE	#1	W.P. 0.3 MILS	#11	P.E.P. 1.5 MILS	#21B	A.E. GREEN 1.5 MILS						
C	16	AM	STEERING GEAR CONTROL ROOM, DECK	#22A	IN ZINC 2.5 MILS	#23	S.P. 0.5 MILS	#41	N.S. C. 7.0 MILS	COLOR TO BE BRICK RED					
H	17	AP	CRES SHEATHING, HARDWARE, PIPE & CABLE HANGERS, DRESSER TO PS, ETC IN REFRIG & COMMISSARY SPACES, LIVING SPACES, CRES PARTS OF COMPONENTS EQUIP. IN MACHY SPACES, ETC (EXPOSED TO VIEW)	NATURAL FINISH - CLEANED & POLISHED										10-A	

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PAINT SCHEMES - INTERIOR

REVISION	LINE NO.	PAINT SCHEME	COMPT. SURFACES & REMARKS	1ST COAT		2ND COAT		3RD COAT		4TH COAT		5TH COAT		GEN. NOTES	SPECS. SECTS.
				NO.	MATERIAL	NO.	MATERIAL	NO.	MATERIAL	NO.	MATERIAL	NO.	MATERIAL		
A H	1	S	ALL FLOOR PLATES (AFTER CUTTING & FITTING) (INCLUDING DECKS IN UPTAKES) TOTAL 2.5 MILS	#22A	IN. ZINC 2.5 MILS									8-A	14-15
A H	2	T	PIPING BELOW FLOOR PLATE LEVEL ENGINE RM & SHAFT ALLEY TOTAL 7.5 MILS	#11	P.E.P. 1.5 MILS	#4	E.P. (TOUCH-UP)	#29	E.C. 6.0 MILS	FOR COLORS, SEE G.N. #9-B & 9-C				5-H 5-C ~~9-B~~	14-16
H	3	U	PIPING ABOVE FLOOR PLATE LEVEL, ENGINE RM & SHAFT ALLEY											9-B	
A	4	↓	1. TEMP BELOW 200° TOTAL 6.0 MILS	#11	P.E.P. 1.5 MILS	#4	E.P. (TOUCH-UP)	#4	E.P. 1.5 MILS	#21B	A.E. GREEN 1.5 MILS	#21B	A.E. GREEN 1.5 MILS	5-H 5-C 9-C	
A H	5	↓	2. TEMP ABOVE 200° TOTAL 3 MILS	#7	H.R.A. 1.5 MILS	#7	H.R.A. 1.5 MILS							5-H 9-C 9-A	
H	6	V	MACHINERY, EQUIPMENT, FOUNDATIONS ABV FLOOR PLATES, SURFACE TEMP.											8-A 8-B	14-16
A	7	↓	1. BELOW 200° - EXCEPT NON-FERROUS MATERIALS	#11	P.E.P. 1.5 MILS	#4	E.P. (TOUCH-UP)	#4	E.P. 1.5 MILS	#21B	A.E. GREEN 1.5 MILS	#21B	A.E. GREEN 1.5 MILS	5-H 5-K	
	8		TOTAL 6.0 MILS												
	9	↓	2. SURFACE TEMP. ABOVE 200° EXCEPT NON-FERROUS MATERIALS TOTAL 3 MILS	#7	H.R.A. 1.5 MILS	#7	H.R.A. 1.5 MILS							5-H	
A	10	W	ALL INTERIORS, BULKHEADS AND OVERHEADS NOT OTHERWISE COVERED, INCLUDING STORE-	#11	P.E.P. 1.5 MILS	#4	E.P. (TOUCH-UP)	#4	E.P. 1.5 MILS	#21	A.E. WHITE 1.5 MILS	#21	A.E. WHITE 1.5 MILS	5-D	14-17
	11		ROOMS, PASSAGEWAYS, SHOPS AND OTHER STEEL AREAS NOT COVERED BY JOINER												
	12	↓	WORK. TOTAL 6.0 MILS												
A B	13	X	GARBAGE ROOM, BATTERY LOCKERS INCLUDING VENT DUCTS THEREIN. TOTAL 6.0 MILS	#11	P.E.P. 1.5 MILS	#4	E.P. (TOUCH-UP)	#4	E.P. 1.5 MILS	#21A	A.E. WHITE 1.5 MILS	#21A	A.E. WHITE 1.5 MILS	5-L	14-17
C	14	Y	STEEL WORK BEHIND INSULATION JOINER WORK, SHR STALLS ETC. CRES SHEATH-TOTAL 7.5 MILS	#11	P.E.P. 1.5 MILS	#15	A.E.P. (TOUCH-UP)	#31	E.C. 6.0 MILS						14-17
	15	Z	DECKS IN STORES AND SPACES NOT OTHERWISE COVERED IN SECT 7 OF REFERENCE #1 & ELSE-	#11	P.E.P. 1.5 MILS	#4	E.P. (TOUCH-UP)	#20	A.H.B.E.M. (RED) 6.0 MILS						14-17
	16	↓	WHERE IN THIS SCHEDULE TOTAL 7.5 MILS												
A C	17	AA	GALVANIZED EXPANDED METAL BHDS AND E.M. DOORS. ALSO EXPOSED GALV. SHEATHING TOTAL 3.3 TO 3.8 MILS	#1	W.P. 0.3 MILS	#11	P.E.P. 1.5 MILS	#19	A.E.F. WHITE 1.5-2.0 MILS		FOR MACHY SPC. SEE SCH "AL" ON SHT "6"				14-17

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COMPARTMENT PAINTING - DECK - MAIN DK TO CABIN DK

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME		REMARKS
				BHD/OVHD	DK	
A C	1	~~FAN ROOM~~ PASSAGE	S	W	Z	FR 34-40
B	2	ACCESS PASSAGE ~~(STAIR WELL)~~	P	W	DK TILE	FR 40-42
B	3	ACCESS PASSAGE ~~(STAIR WELL)~~	S	W	DK TILE	↓
B	4	PASSAGE	P	W	DK TILE	FR 40-52
B	5	PASSAGE	S	W	DK TILE	↓
	6	~~LOCKER (ED)~~	~~P~~	~~W~~	~~Z~~	~~FR 41 1/2-42 3/4~~
	7	LOCKER (DY)	S	W	Z	FR 41 1/2-43
A	8	FAN ROOM	P	W	Z	FR 44-46
A	9	FAN ROOM	S	W	Z	FR 43-46
	10	WATCHMAN'S STATION	P	W	G	FR 47-48 1/2
	11	WATCHMAN'S STATION	S	W	G	↓
	12	ROPE LOCKER (DAB)	P	W	Z	FR 50-52 (GRATINGS)
	13	ROPE LOCKER (DAC)	S	W	Z	↓
A	14	MOORING STATION	P	AF	G	FR 52-58
A	15	MOORING STATION	S	AF	G	FR 52-58
H	16	CREW LAUNDRY { BEHIND ~~INS &~~ ~~JOINER WORK~~	P	~~*~~	~~Z~~	FR 42-44
H	17	~~ELSEWHERE~~	P	W	DECK COVERG	FR 42-44 SEE REF #12
	18	PASSAGE	P	Y	DECK COVERG	FR 58-69 REF #12
	19	CHIEF COOK S.R. (M-14)	P	Y	↓	FR 67-69
	20	2ND COOK S.R. (M-12)	P	Y	↓	FR 65 1/2-67
	21	~~SERVICE LKR (SO) (CLEANING GEAR)~~	~~P~~	~~W~~	~~Z~~	~~FR 56 3/4-57~~
	22	T/S- TOILET & SHOWER (FOR ALL S.R.)	P	Y	LATEX MASTIC REF #12	FRS 59 1/2; 62 1/2; 65 1/2; 68 1/2-69
A	23	BARGE DECK (MAIN DECK)	P/S	H_1/H_2	G	FR 34 TO 109
A C	24	~~W.T. RECESS FOR BARGE TRANSPORTER MULE~~	~~P/S~~	~~H_1/H_2~~	~~G~~	~~FR 32 1/8-34~~ ~~RES# 4~~
A	25	DRAIN WELLS	P/S	R_1	R_1	FR 34-35 ~~RES# 4~~
	26	OFFICERS (DZ) BAGGAGE RM	S	W	Z	FR 46-47
	27	SLOP CHEST STORES	P	W	DK TILE REF #12	FR 46-47
A	28	FAN ROOM	P	W	Z	FR 48-50
A	29	FAN ROOM	S	W	Z	FR 48-50
	30	CHIEF COOK - T/S	P	Y	LATEX MASTIC REF #12	FR 68 1/2-69
B	31	TRUNK - ACCESS (FWD)	S	W	Z	FR 67 1/2-69
B C	32	TRUNK - ACCESS (AFT) OUTSIDE	S	W	Z	FR 69-70 1/2 (SEE LINE #2; SHT #6)
C	33	TRANSPORT MAINT SHOP (SPARE DOLLY STOW.)	P/S	H_1/H_2	G	FR 29 TO 34
B	34	PASSAGE	S	W	Z	FR 58-69
	35					
C	36	ENGRS PAINT & KEROSENE ROOM	P	W	Z	FR 81-82
	37					
	38					
	39					
	40					

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COMPARTMENT PAINTING - DECK - LOWER DK TO MAIN & CABIN DKS INCL TWEEN DK

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME		REMARKS
				BHD/OVHD	DK	
	1					
	2					
	3					
	4					
	5					
C F	6	RECESS FOR TRANSPORTER LOOPER SYSTEM	P/S	H_1/H_2	G	FRS 31 1/2-34
	[illegible]					FOR DRAIN WELL SEE SCHEME "R"
	8					
	9					
C	10	ACCESS TRUNK	P	W	Z	FR 27 - 28 TWEEN DK
C S	11	TRUNK - ACCESS TO ELEV PLATF	P/S	AF	G	FRS 119-120
F	12	COFFERDAM	P	W	Z	FRS 17 3/16 FWD 128 TO 130
F	13	COFFERDAM	S	W	Z	FRS 17 3/16 FWD 128 TO 130
B	14	DISTILLED WATER TANK	P	0	0	FR 80-82
	15	BOW THRUSTER CONTROL ROOM	P	W	Z	FR 22-26 1/2 TWEEN DK
C	16	ENGINEERS STORES	P/S	W	Z	FR 24-28
C	17	~~UNASSIGNED - LOWER DK (AFT OF CHAIN LKRS)~~	~~P/S~~	~~W~~	~~Z~~	~~FR 24-28~~
C	18	~~ACCESS FOR ELEV POSITIONING RMS~~	~~P/S~~			
A C	19	ELECTRICAL STORES & ~~M.G.~~ MAINTENANCE SHOP	S	W/AA	Z	FR 26-28 TWEEN DK
A C	20	~~ROOM FOR POWER & CONTROL UNIT FOR BOW THRUSTER~~	~~P~~	~~W~~	~~Z~~	~~FR 22-26 1/2 TWEEN DK~~
A C S	21	CHAIN LOCKER & CHAIN LKR SUMP	P/S	AT	AT	FR 22-24 TWEEN DK
A F	22	UNASSIGNED ~~BARGE WINCH MACHY RM~~	P/S	W	Z	FR 28-34 ~~FOR DRAIN WELL SEE SCHEME "R"~~ ~~RES #5~~
A	23	~~M.G. ROOM~~ SPARE PARTS STOW.	P/S	W	Z	FR 22-28 TWEEN DK RUBBER MATTING
A C	24	ENGINEERS STORES	P/S	W	Z	FR 28-34 TWEEN DK
A C	25	~~FAN ROOM~~	~~S~~	~~W~~	~~Z~~	~~FR 31-34 TWEEN DK~~
A	26	LOWER BARGE DECK	℄	H_1/H_2	G	FR 34-108
A	27	BOARDING VESTIBULE (10'-9" ABV LOWER DK)	P	H_1/H_2	G	FR 46-52 RUBBER MATTING
A	28	BOARDING VESTIBULE (10'-9" ABV LOWER DK)	S	H_1/H_2	G	FR 46-52 RUBBER MATTING
A	29	F.O. FILLING STATION (10'-9" ABV LOWER DK)	P	H_1/H_2	G	FR 67 - 70
A	30	F.O. FILLING STATION (10'-0" ABV LOWER DK)	S	H_1/H_2	G	↓
A B	31	MACHY SPACE BELOW (LOWER LEVEL 9'-6" ABL)	℄	R_1	S	FR 70-82
A B	32	MACHY SPACE ABOVE (UPPER LEVEL 9'-6" ABL)	℄	R_2	S	
	33	MACHY SPACE FLOOR PLTS	CL	—	S	
	34	MACHY SPACE PIPING	CL	T & U	—	↓
	35	MACHY SPACE - EQUIP & FDNS	CL	—	V	FR 70-82
B C	36	VOID	P/S	N	N	FR 67-70
A	37	MACHY CASING (LOWER DECK)	P	R_2	S	FR 70-82
A	38	MACHY CASING (LOWER DECK)	S	R_2	S	↓
A	39	~~STAIRWELL~~ - PASSAGE (36'-0" ABL)	P	W	Z	FR 106-109 REF #
A	40	~~STAIRWELL~~ - PASSAGE (36'-0" ABL)	S	W	Z	"Z" ↓

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COMPARTMENT PAINTING - DECK MAIN DECK TO CABIN DECK

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME		REMARKS
				BHD/OVHD	DK	
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					
	32					
	33					
	34					
	35					
	36	ROPE LKR (DAA) FWD OF CHAIN LKR)	CL	W	Z	FR 18-22 (GRATINGS)
A	37	MOORING STATION (MAIN DECK)	P/S	AF	G	FR 0-28
A	38	TRANSPORT. MAINT. SHOP	P/S	W	Z	FR 28-34 FOR DRAIN WELL SEE SCHEME "R"
A C	39	~~FAN ROOM~~ PASSAGE	P	W	Z	FR 34-40
	40	TRUNK (PASSAGE)	P	W	Z	FR 27 1/2-28

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COMPARTMENT PAINTING - DECK - TANKS & COMPTS UP TO LOWER DK

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME		REMARKS
				BHD/OVHD	DK	
	1	BALLAST TANK NO. 8	P	M	M	FR 82-88
	2	BALLAST TANK NO. 8	S	M	M	↓
	3	BALLAST TANK NO. 9	℄	N	N	FR 88-94
	4	BALLAST TANK NO. 9	P	N	N	
	5	BALLAST TANK NO. 9	S	N	N	↓
A C	6	N.T. FLAT OVER SHAFT ALLEY - ~~RES #2~~ -PASS.	P	W	Z	FR 94-99
A C	7	N.T. FLAT OVER SHAFT ALLEY - ~~RES #2~~ -PASS.	S	W	Z	
	8	BALLAST TANK NO. 10	P	M	M	
	9	BALLAST TANK NO. 10	S	M	M	↓
	10	STEERING GEAR ROOM	℄	W	Z	FR 99-107
	11	BALLAST TANK NO. 11	P	M	M	
	12	BALLAST TANK NO. 11	S	M	M	↓
G	13	SKEG INTERIOR SKEG (VOID)	℄ ℄	AG AD	- -	AFT FR 100 2/3
A	14	RUDDER (VOID) INTERIOR / EXTERIOR	℄	AD / B	-	FR 105-108
D	15	COFFERDAM	P/S	N	N	FR 107-108
C	16	BALLAST TANK NO. 12	P	N	N	FR 109- 17 3/16 FWD 128
C	17	BALLAST TANK NO. 12	S	N	N	↓
C F	18	COFFERDAM ~~ELEV POS RAM COMPT (TRUNK) UNASSIGNED~~	P	W	Z	FR 17 3/16 FWD 128 TO 130
C F	19	COFFERDAM ~~ELEV POS RAM COMPT (TRUNK) UNASSIGNED~~	S	W	Z	↓
C	20	TO STEERING (TRUNK) GEAR CONTROL ROOM	CL	W	Z	FR 99-99 1/2
A	21	RUDDER HORN INTERIOR / EXTERIOR	CL	AD / B		FR 105-108
A C D	22	~~HYDRAULIC~~ STEERING GEAR CONTROL RM	CL	W	AM	FR 99-101
A	23	ENGINEERS PLAT HOIST	S	W		FR 81-82
B C	24	ENGINEERS STORES	P	STRUCT R_2	—	FR 80-82
B C	25	↓ ↓	P	AL	Z	↓
	26					
B C	27	ENGINEERS WORKSHOP	P	STRUCT R_2	—	FR 79-82
B C	28	↓ ↓	P	AL	Z	↓
B C	29	~~MAIN~~ ELECTRICIANS WORKSHOP	S	STRUCT R_2		FR 75-77
B	30	↓ ↓	S	AL	Z	↓
B	31	MAIN SWITCHBOARD	S	AL	S	FR 78-79
B	32	FORCED DRAFT FAN RM	CL	W	Z	FR 70-71 1/2
C	33	BARGE DK DRAIN COLLECTING TANK	P	R_1	R_2	FRS 100 2/3-101 FRS 31-32
	34					FRS 101-101 2/3
C	35	STABILIZER CONTROL RM GRATINGS	P	—	S	SEE SHT #1; LINE #28
D	36	L.O. SUMP TANK	CL	Q	Q	FR 80 1/2-81 1/2
C	37	INACCESSIBLE VOIDS	P/S	AK	AK	108-109
D	38	RECESS IN WAY OF STERN GATE (INTERIOR)	P/S	AK	AK	108-109
M	39	WC	P/S	W	LATEX MASTIC REF 12	70-71
	40					

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MA NO. 241-519-1-1 GD NO. 30261-01x1 FRAME ①②③④
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COMPARTMENT PAINTING - DECK - CABIN DECK TO UPPER DK

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME BHD/OVHD	SCHEME DK	REMARKS
C	1	STAIR WELL	P	Y	DK TILE REF'12	FR 69-71
C	2	STAIR WELL	S	Y	↓	FR 69-71
	3					
	4					
	5	HOSPITAL	S	Y	DK TILE REF'12	FR 36 1/2-38 1/2
	6	HOSPITAL - T/S	S	Y	LATEX MASTIC REF'12	FR 35 1/2-37 1/2
	7					
	8					
	9					
	10					
	11					
C	12	NIGHT RELIEF ENGR S.R. (C-3)	S	Y	DK TILE REF'12	FR 46-47 1/2
C	13	NIGHT RELIEF ENGR T/S	S	Y	LATEX MASTIC REF'12	FR ~~44 1/2~~ 45 1/2-46
C	14	NIGHT RELIEF MATE (HOSPITAL) C-1) S.R.	S	Y	DK TILE REF'12	FR 43-44 1/2
C	15	NIGHT RELIEF MATE T/S	S	Y	LATEX MASTIC REF'12	FR 44½-45½
	16					
	17	3RD ASST ENGR #1 S.R. (C-11)	S	Y	DK TILE REF'12	FR 52 1/2-55
	18	3RD ASST ENGR #1 T/S	S	Y	LATEX MASTIC REF'12	FR 52 1/2-53 1/2
	19	2ND ASST ENGR S.R. (C-13)	S	Y	DK TILE REF'12	FR 55-55 1/2
	20	2ND ASST ENGR T/S	S	Y	LATEX MASTIC REF'12	FR 56 1/2-57 1/2
	21	2ND ELECTRICIAN S.R. (C-34)	P	Y	DK TILE REF'12	FR 65 1/2-67
	22	DECK ENG MECHANIC #1 S.R. (C-28)	P	Y	↓	FR 61 - 63 1/2
	23	DECK ENG MECHANIC #2 S.R. (C-30)	P	Y	↓	63½-64 FR 63 1/2-64
	24	DECK ENG MECHANIC #3 S.R. (C-32)	P	Y	↓	FR 64-65 1/2
	25	WIPER #1 S.R. (C-24)	P	Y	↓	FR 58-59 1/2
	26	WIPER #2 S.R. (C-26)	P	Y	↓	FR 59 1/2-61
	27	CREW BAGGAGE RM	P	W	Z	FR 69-71 (GRATING)
	28	SLOP CHEST (STORES) (DU)	S	Y	DK TILE REF'12	FR 35-35 1/2
	29	~~OFFICERS BAGGAGE RM (DW)~~	~~S~~	~~Y~~	~~Z~~	~~FR 35 1/2-37 (GRATING)~~
	30	LINEN LKR (SM)	S	Y	Z	FR ~~34 1/2-38~~ 35 1/2 (GRATING)
	31	OFFICERS LAUNDRY	S	Y	LATEX MASTIC REF'12	FR 38-40
	32	STAIR WELL	S	Y	DK TILE REF'12	FR 40-43
C	33	~~MEDICAL LKR (DY)~~	~~S~~		~~↓~~	~~FR 43-44~~
B	34	DECK & ENG CADETS T/S	S	Y	LATEX MASTIC	FR 48-49
	35	DECK CADET S.R. (C-5)	S	Y	DK TILE REF'12	FR 47 1/2-49
	36	ENG CADET S.R. (C-7)	S	Y	DK TILE REF'12	FR 49-50 1/4
C	37	~~LOCKER (DX)~~	~~S~~	~~W~~	~~Z~~	~~FR 50-50 1/2~~
	38	3RD ASST ENGR #2 S.R. (C-9)	S	Y	DK TILE REF'12	FR 49-52
	39	3RD ASST ENGR #2 T/S	S	Y	LATEX MASTIC REF'12	FR 52-52 1/2
	40					

GENERAL DYNAMICS
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COMPARTMENT PAINTING - DECK - CABIN DK TO UPPER DECK

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME BHD/OVHD	SCHEME DK	REMARKS
	1					
	2					
	3					
	4					
	5					
	6	PASSAGE (TO GALLEY)	P	Y	LATEX MASTIC REF'12	FR 28 1/2-29
	7					
	8					
C	9	ANCHOR WINDLASS HYD. MACHY. RM.	P	R2	Z	FR 19-23
	10					
A	11	ANCHOR HANDLING AREA & WINDLASS RM	℄	H1/H2	G	STEM FR 24
	12	PAINT RM & LKR (DU)	P	W	Z	FR 10-17 1/2
	13	PASSAGE	P	W	Z	FR 17 1/2-19
A C	14	~~BOW THRUSTER HYD MACHY RM~~ (SEE LINE #9)	~~P~~	~~R2~~	~~Z~~	~~FR 19-23~~
	15	BOSN'S STORES (DT)	S	W	Z	FR 10-23 (GRATINGS)
	16	STEWARD'S STORES (SD)	S	W	Z	FR 22-23 (GRATINGS)
	17	STORES LOADING AREA	P/S	I	G	FR 23-26 3/4
A	18	REFRIG (DAIRY)	℄	AE	AE	FR 26 3/4-28 SEE GENL. NOTE "5-P
A C	19	REFRIG (THAW) CRES SHEATHG	℄	Y	LATEX MASTIC REF'12	FR 28-29 SEE GENL. NOTE "5-P
A	20	REFRIG (FRUITS & VEG)	P	AE	AE	FR 26-29 SEE GENL. NOTE "5-P
L	21	DRY STORES	P	Y-FWD BHD W-ALL OTHER BHDS	Z	(GRATING) FR 26-28 1/2
A	22	REFRIG (MEAT, FISH & F. FOOD)	S	AE	AE	FR 26-29 SEE GENL NOTE "5-P
A	23	FAN ROOM	P	W	Z	FR 26-28
	24	SOILED LINEN RM (SE)	S	Y	Z	FR 26-27 1/2 (GRATING)
	25	OFFICER W.C.	S	—	LATEX MASTIC REF'12	FR 27-28
	26	CREW W.C.	P	W	↓	FR 27 1/2-28
	27	GARBAGE ROOM	P	X	↓	FR 28-29 FUME & ACID RESISTANT TYPE
	28	CLEAN LINEN RM	S	Y	Z	FR 27 1/2-29 (GRATING)
B	29	PASSAGE INCL AREA AT HEAD OF INCLD LADDER	P	Y	DK TILE REF'12	FR 26-34
	30	PASSAGE ↓ ↓ ↓	S	Y	↓	↓
	31	CREW RECREATION ROOM	P	Y	↓	FR 29-33 1/2
	32	OFFICERS RECREATION RM	S	Y	↓	↓
C	33	GALLEY CRES SHEATHG	℄	Y	LATEX MASTIC REF'12	FR 29-31
C	34	CREW PANTRY ↓	P	Y	↓	↓
C	35	OFFICERS PANTRY ↓	S	Y	↓	↓
C	36	SERVICE AREA (SCULLERY) CRES. SHEATHG.	℄	Y	↓	FR 31-32
	37	CREW MESS	P	Y	DK TILE REF'12	FR 31-33 1/2
	38	OFFICERS DINING RM	S	Y	↓	↓
	39	SOAP LOCKER (SL)	P	Y	Z	FR 33-34 (GRATING)
	40	SERVICE LOCKER (SK) (CLEANING GEAR)	S	Y	LATEX MASTIC REF'12	FR 33 1/2-34

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COMPARTMENT PAINTING - DECK - CABIN DECK TO UPPER DECK

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME BHD/OVHD	SCHEME DK	REMARKS
	1	PASSAGE	P	Y	DK TILE REF'12	FR 34-69
	2	PASSAGE	S	Y	↓	↓
	3	DUCT & WIRING SPACE	P	W	Z	FR 34-35
	4	DUCT & WIRING SPACE	S	W	Z	↓
	5	SLOP CHEST (DV)	P	Y	DK TILE REF'12	FR 35-36 1/4
	6	OS #1 STATEROOM (C-2)	P	Y	↓	FR 36 1/4-38
	7	DECK UTILITY S.R. (C-4)	P	Y	↓	FR 38-40
	8	STAIR WELL	P	Y	↓	FR 40-42 1/2
	9	O.S. #2 S.R. (C-6)	P	Y	↓	FR 43 -44 1/2
	10	O.S. #3 S.R. (C-8)	P	Y	↓	FR 44 1/2-46
	11	A.B. #1 S.R. (C-10)	P	Y	↓	FR 46-47 1/2
	12	A.B. #2 S.R. (C-12)	P	Y	↓	FR 47 1/2-49
	13	A.B. #3 S.R. (C-14)	P	Y	↓	FR 49-50 1/2
	14	A.B. #4 S.R. (C-16)	P	Y	↓	FR 50 1/2-52
	15	A.B. #5 S.R. (C-18)	P	Y	↓	FR 52-53 1/2
	16	A.B. #6 S.R. (C-20)	P	Y	↓	FR 53-1/2-55
	17	BOSN'S S.R. (C-22)	P	Y	↓	FR 55-57
	18	BOSN'S T/S	P	Y	LATEX MASTIC REF'12	FR 56-57
	19	1ST ELECTRICIAN S.R. (C36)	P	Y	DK TILE REF'12	FR 67-69
	20	1ST ELECTRICIAN T/S	P	Y	LATEX MASTIC REF'12	FR 68-69
H	21	SERVICE LKR (SO)	P	W	LATEX MASTIC REF'12	FR 42 1/2-43
	22	LINEN LKR (SP)	P	Y	Z	FR 57-58 (GRATING)
A	23	PASSAGE (TRUNK)	P/S	Y	DK TILE	FR 69-71
	24	VENT & PIPE SPACE	P/S	W	Z	FR 42 1/2-43
	25	T/S TOILET & SHOWER (FOR ALL S.R.)	P	Y	LATEX MASTIC REF'12	FR 38 1/4;44 1/2;47 1/2;50 1/2; 53 1/2;59 1/2; 62 1/2;65 1/4
	26	↓	—	—	—	
	27					
	28					
	29					
	30					
	31					
	32					
	33					
	34					
	35					
	36					
	37					
	38					
	39					
	40					

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COMPARTMENT PAINTING - DECK - MAIN DK TO CABIN DECK

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME BHD/OVHD	SCHEME DK	REMARKS
A C	1	PASSAGE ~~(TRUNK)~~	P	Y	DK TILE	FR 69-71
B C	2	PASSAGE INSIDE (TRUNK)	S	W & Y	DK TILE	FR 69-71 GENL NOTE 5-V
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20	MOORING STATION	S	AF	G	FR 109-127
	21	MESSMAN #1 S.R. (M-2)	P	Y	DECK TILE REF'12	FR 58-59 1/2
	22	MESSMAN #2 S.R. (M-4)	P	Y	↓	FR 59 1/2-61
	23	UTILITY MAN #1 S.R. (M-6)	P	Y	↓	FR 61-62 1/2
	24	UTILITY MAN #2 S.R. (M-8)	P	Y	↓	FR 62 1/2-64
	25	UTILITY MAN #3 S.R. (M-10)	P	Y	↓	FR 64-65 1/2
	26	STEWARDS LKR (S.R.)	P	Y	Z	FR 69-70 (GRATINGS)
	27	LINEN LKR (ST)	P	Y	Z	FR 70-71 (GRATINGS)
A	28	MACHY CASING (MAIN DECK)	P	R2	S	FR 71-82
A	29	MACHY CASING (MAIN DECK)	S	R2	S	↓
	30	MOORING STATION	P	AF	G	FR 82-88
	31	MOORING STATION	S	AF	G	↓
	32	ACCESS PASSAGE	P	W	Z	FR 88-89 3/4
	33	ACCESS PASSAGE	S	W	Z	↓
	34	ROPE LKR (DAE)	P	W	Z	FR 88-89 3/4 (GRATING)
	35	ROPE LKR (DAD)	S	W	Z	↓
	36	ACCESS PASSAGE ~~(STAIRWELL)~~	P	W	Z	FR 106-109
	37	ACCESS PASSAGE ~~(STAIRWELL)~~	S	W	Z	↓
	38	ROPE LKR (DAG)	P	W	Z	FR 109-112
	39	ROPE LKR (DAF)	S	W	Z	↓
	40	MOORING STATION	P	AF	G	FR 109-127

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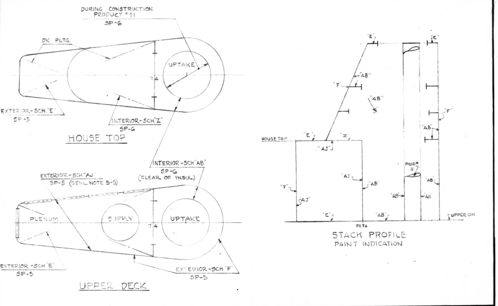

GENERAL DYNAMICS
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REV. G
SHEET 12A

COMPARMENT PAINTING - DECK - UPPER DECK & WEATHER DECK

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME BHD/OVHD	SCHEME DK	REMARKS
A C H	1	~~PLENUM~~ RES #3 FAN ROOM	P/S	AJ	E	FR 43 1/2-44 GENL NOTE #5S
	2	CATWALK	P/S	-	E	FR 45 1/2-48 1/2
C	3	RECESS FOR TRANSPORTER LOOPER SYS.	C.L.	H_1/H_2	E	FR 11-19
	4					
C	5	PLENUM	P/S	AJ	E	FRS 35136 1/2 GENL NOTE #5S
C	6	FAN ROOM	P/S	W	Z	FRS 34135
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
A	21	FOREMAST (INTERIOR)	C.L.	AC	AC	FRS 16-21
A	22	FOREMAST (EXTERIOR)	C.L.	EXT "F"	-	
B C	23	PASSAGE OUTSIDE STAIR ENCLOSURE	P/S	Y	DECK TILE	FRS 42 1/2 - 43 1/2
A	24	BARGE DECK (UPPER DK)	P/S	~	E	FOR DRAIN WELLS SEE FR 19-109 SCH R_1
	25	PIPE SPACE	P/S	W	~	FR 40-41
A H	26	~~BARGE WINCH MACHY RM~~ ~~BOSN'S LKR (DG)~~ SPECIAL CARGO LOCKER	CL	W	Z	BOW TO FR 19 ~~FOR DRAIN WELLS SEE SCHEME R1~~
C	27	~~BOSN'S LKR - BARGE~~ LASHINGS (DH)	~~P~~	~~W~~	~~Z~~	~~FR 15-19 (GRATING)~~
C	28	~~BOSN'S LKR - BARGE LASHINGS (DG)~~	~~S~~	~~W~~	~~Z~~	
	29	BOSN'S LKR - BARGE LASHINGS (DM)	P	W	Z	FR 39-41 (GRATING)
	30	BOSN'S LKR - BARGE LASHINGS (DJ)	S	W	Z	FR 39-40 1/2 (GRATING)
	31	EMER GEAR LKR (DK)	S	W	Z	FR 40 1/2-41 (GRATING)
	32	STAIRWELL	P	Y	DECK TILE REF#12	FR 41-42 3/4
	33	STAIRWELL	S	Y	DECK TILE REF#12	
	34	O.S. LKR (OILSKIN)(DN)	P	W	Z	FR 42 3/4-43 1/4(GRATING)
	35	O.S. LKR (OILSKIN)(DL)	S	W	Z	
	36	PASSAGE	P	F	E	FR 39-44
	37	PASSAGE	S	F	E	
C	38	LADDER ENCLOSURE	P	EXT "F" INT W	E	FRS 69 1/2-71 1/4
C	39	LADDER ENCLOSURE	S	EXT "F" INT W	E	
C	40	UPTAKE (STACK)	P/S	EXT "F" INT AB	Z	FR 73-74

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COMPARTMENT PAINTING - DECK - UPPER DECK

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME BHD/OVHD	SCHEME DK	REMARKS
C	1	SUPPLY VENT UPTAKE (STACK)	P/S	EXT F INT AJ	E	FR 74-76 SEE SHT#12A
	2	BOSN'S LKR BARGE LASHINGS (DP)	P	EXT F INT W	Z	FR 78 1/2-80 (GRATING)
	3	BOSN'S LKR BARGE LASHINGS (DO)	S	EXT F INT W	Z	↓
	4	LADDER ENCLOSURE	P	EXT F INT W	E	FR 88 1/2-90
	5	LADDER ENCLOSURE	S	EXT F INT W	E	↓
	6	PASSAGE	P	W	Z	FR 104-109
	7	PASSAGE	S	W	Z	↓
	8	LONGSHOREMAN'S TOILET	S	W	LATEX MASTIC REF#12	FR 104-104 3/4
	9	BOSN'S LKR - BARGE LASHINGS (DR)	P	W	Z	FR 104-106 1/2
	10	BOSN'S LKR - BARGE LASHINGS (DQ)	S	W	Z	FR 104 3/4-106
	11	BOSN'S STORES (DS)	P	W	Z	FR 105 1/2-107
	12	CLERK'S OFFICE	S	W	DK TILE REF#12	FR 106-107 1/2
C	13	~~ACCESS PASSAGE TO SECURING RATCHETS~~	~~P~~	~~F~~	~~E~~	~~FR 109-127~~
C	14	~~ACCESS PASSAGE TO SECURING RATCHETS~~	~~S~~	~~F~~	~~E~~	~~FR 109-124~~
A B H L	15	ELEVATOR & STERN GATE OPERATING STATION	S	W	Z	7'-6" ABV. UPPER DK FR 126½-130
B	16	SUPPLY VENT TRUNKS GENL NOTE #5-S	P/S	AJ	E	FR 78-76 1/2 P FR 80-81 1/2 S
	17					
	18					
	19					
	20					
	21	EXHAUST VENTS	P/S	AJ	E	FR 71 1/2-73 P/S FR 80-81 P
	22	↓ ↓	↓	↓	↓	FR 99-100 P
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					
	32					
H L	33	~~ELEVATOR SECURING STA &~~ BARGE POS WINCH RM	P	W	Z	FR 109-130
H L	34	~~ELEVATOR SECURING STA &~~ BARGE POS WINCH RM	S	W	Z	FR 109-130
	35					

GENERAL DYNAMICS
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COMPARTMENT PAINTING - DECK - CABIN DECK TO UPPER DECK

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME BHD/OVHD	SCHEME DK	REMARKS
	1					
	2					
	3	CHIEF ENGR S.R. (C-19)	S	Y	DK TILE REF#12	FR 67-69
	4	CHIEF ENGR'S T/S	S	Y	LATEX MASTIC REF#12	FR 69-70
	5	CHIEF ENGR'S OFFICE	S	Y	DK TILE REF#12	FR 64-67
	6	ENGINEER'S STORES (EB)	S	W	Z	FR 70-71 1/2
C	7	~~SERVICE LKR (DZ)~~	~~S~~	~~W~~	~~LATEX MASTIC REF#12~~	~~FR 70 1/2-71~~
A	8	MACHY CASING (CABIN DK)	P	R_2	S	FR 71-82
A	9	MACHY CASING (CABIN DK)	S	R_2	S	↓
	10	DIESEL SPARES STRM (EC)	P	W	Z	FR 81-82
A	11	~~DIESEL GEN ROOM~~ ~~DIESL GEN RM GALV EM BHDS~~	~~P~~ ~~P~~	~~W~~ ~~AA~~	~~Z~~	~~FR 83-88~~ →
B C	12	CO_2 ROOM #1 CO_2 ROOM ~~GALV EM BHDS~~	P ~~P~~	W ~~AA~~	Z	FR 90-94
	13	PASSAGE	P	W	Z	FR 82-95½
C	14	~~PASSAGE & SPARE & DOLLIES STOWAGE AREA~~	~~P~~	~~W~~	~~Z~~	(SEE LINE #33) ~~FR 94-106~~
C	15	PASSAGE & ~~SPARE~~ ENGRS ~~DOLLIES~~ STOWAGE AREA	S	W	Z	FR 82-106
	16	ELECTRICAL STORES & ELEVATOR MAINT (EC)	S	W	Z	FR 102-105
A	17	~~STAIRWELL~~ PASSAGE	P	W	Z	FR 106-109
A	18	~~STAIRWELL~~ PASSAGE	S	W	Z	↓
C	19	~~MACHY RM FOR CENTRAL HYD SYS & BARGE POSITIONING WINCH M-G SETS~~	~~P~~	~~W~~	~~Z~~	(SEE LINE #39) ~~FR 109-127½~~
C	20	~~MACHY RM FOR ELEV CONTROL & BARGE POSITIONING WINCH M-G SETS~~	~~S~~	~~W~~	~~Z~~	(SEE LINE #40) ↓
B	21	~~ELEVATOR POSITIONING RAM ROOM~~ UNASSIGNED	~~P~~	~~W~~	~~Z~~	~~FRS 125-127~~
B	22	~~ELEVATOR POSITIONING RAM ROOM~~ UNASSIGNED	~~S~~	~~W~~	~~Z~~	~~FRS 125-127~~
A B	23	ELEVATOR PLATFORM	P/S	(STRUCT) M	E+J	SEE GEN. NOTE 4-U FRS 109-128
	24	1ST ASST ENGR S.R. (MAINT) (C-15)	S	Y	DK TILE REF#12	FR 58-59 1/2
	25	1ST ASST ENGR (MAINT) T/S	S	Y	LATEX MASTIC REF#12	FR 57 1/2-58
	26	1ST ASST ENGR - RECEPTION ROOM	S	Y	DK TILE REF#12	FR 59 1/2-61 3/4
	27	1ST ASST ENGR S.R. (C-17)	S	Y	DK TILE REF#12	FR 61 3/4-63
	28	1ST ASST ENGR T/S	S	Y	LATEX MASTIC REF#12	FR 63 1/2-64
	29	ENGINEERS PLATF HOIST (WT TRUNK)				
A	30	ENGINEERS PLATF HOIST (WT TRUNK)	S	W	-	FR 81-82
A C	31	DIESEL GEN ROOM ~~DIESEL GEN RM GALV BHDS~~	P P	W ~~AA~~	Z	FR 82-88
	32					
C	33	BARGE TRANSPORTER M.G. ROOM	P	W	Z	MATTING FR 95 1/2-106
B	34	CO_2 ROOM #2	P	W	Z	FR 94-96
B F	35	~~UNASSIGNED~~ ESCAPE PASSAGE	P	W	Z	FRS 127 1/2-130
B F	36	~~UNASSIGNED~~ ESCAPE PASSAGE	S	W	Z	FRS 127 1/2-130
C S	37	TRUNK - ACCESS TO ELEV. PLAT	P/S	AF	G	FRS 119-120
	38					
C	39	BARGE ELEV. MACH. RM PORT	P	W	Z	FR 109-127 1/2
C	40	BARGE ELEV MACH. RM STBD	S	W	Z	FR 109-127 1/2

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GENERAL DYNAMICS, QUINCY DEC., 1973 6X
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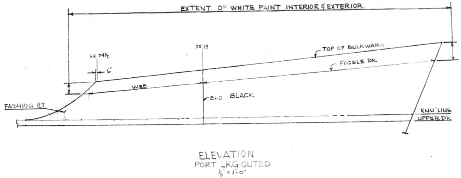
COMPARTMENT PAINTING - DECK - BRIDGES

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME BHD/OVHD	SCHEME DK	REMARKS
	1	MASTER'S OFFICE	CL	Y	DK TILE REF#12	FR 36 3/4-38 3/4
	2	MASTER'S LOUNGE	P	Y	DK TILE REF#12	FR 37-38 3/4
	3	3RD MATE #1 S.R. (B-2)	P	Y	DK TILE REF#12	FR 37-38 3/4
	4	3RD MATE #1 - T/S	P	Y	LATEX MASTIC REF#12	FR 38-38 3/4
	5	MASTER'S S.R. (B-3)	S	Y	DK TILE REF#12	FR 37-38 3/4
	6	MASTER'S - T/S	S	Y	LATEX MASTIC REF#12	FR 38-38 3/4
	7	2ND MATE S.R. (B-4)	P	Y	DK TILE REF#12	FR 37-38 1/2
	8	2ND MATE - T/S	P	Y	LATEX MASTIC REF#12	FR 38 1/4-39
	9	CHIEF MATES S.R. (B-1)	S	Y	DK TILE REF#12	FR 37-38 3/4
	10	CHIEF MATES - T/S	S	Y	LATEX MASTIC REF#12	FR 38-38 3/4
	11	CHIEF MATE'S RECEPTION ROOM	S	Y	DK TILE REF#12	FR 37-39
	12	PASSAGE	P/S	Y	DK TILE REF#12	FR 38 3/4-42 1/2
	13	WEATHER DECK	P/S	-	E	FR 41-44
	14					
	15					
	16	WHEELHOUSE	CL	Y	LATEX MASTIC (GREEN)	FR 36-38 1/2 REF #12 (MATTING)
	17	CHART ROOM	CL	Y	↓	FR 38 1/2-41
	18	CREW W.C.	CL	W	LATEX MASTIC REF#12	FR 41-41 3/4
	19	FLAG LKR (DA)	CL	W	Z	FR 41 3/4-42 1/4
	20	NAVIG BRIDGE WEATHER DK	P/S	-	E	GRATINGS FWD OF WHEELHOUSE
	21	MASTER GYRO & TRANSM ROOM	CL	Y	DK TILE REF#12	FR 39 1/4-41
	22	PASSENGER S.R. (B-6)	P	Y	DK TILE REF#12	FR 39 1/4-41
	23	PASSENGER T/S (FOR BOTH B-6 &B-8,SR)	P	Y	LATEX MASTIC REF#12	FR 38 3/4-41
	24	PASSENGER S.R. (B-8)	P	Y	DK TILE REF#12	FR 39 1/4-42 1/2
	25	3RD MATE #2 S.R. (B-7)	S	Y	DK TILE REF#12	FR 39 1/4-41
	26	3RD MATE #2 - T/S	S	Y	LATEX MASTIC REF#12	FR 39 1/4-40
	27	LINEN LKR (SA)	S	Y	Z	FR 39 1/4-39 3/4 (GRATING)
	28	SERVICE LKR (SB)	S	Y	LATEX MASTIC REF#12	FR 39 1/4 39 3/4
	29	BATTERY LKR	S	X	Z	FR 40-41 (GRATING)
	30	RADIO ROOM	S	Y	DK TILE REF#12	FR 39 1/4-41
A B	31	FAN ROOM	P/S	W	Z	FR 39-41 GENL NOTE #5-S
	32	RADIO OFFICER'S S.R. (B-5)	S	Y	DK TILE REF#12	FR 41-42 3/4
	33	RADIO OFFICER'S T/S	S	Y	LATEX MASTIC REF#12	FR 41-41 1/2
	34	BOSN LKR (DC)	CL	W	Z	FR 41-42 1/2
	35	PIPE DUCT SPACE	P/S	W	—	FR 41 1/2-41
	36	STAIRWELL	P/S	Y	DK TILE REF#12	FR 41-42 1/2
	37	MED LKR	S	Y	Z	FR 39 1/4-39 1/2
	38	DRESSING ROOM	P	Y	DK TILE REF#12	FR 40 1/4-41
	39	SPARE PARTS LKR (DB)	S	Y	Z	FR 39 1/2-40
	40					

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.

LYKES – PAINTING SCHEDULE | PLAN NO. 30261-01X1 | SECT. F | REV. B | SHEET 14



ELEVATION
PORT LKG OUTBD
1/8" = 1'-0"

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY MASS.

LYKES - PAINTING SCHEDULE | PLAN NO. 30261-01X1 | SECT F | REV J | SHEET 12C

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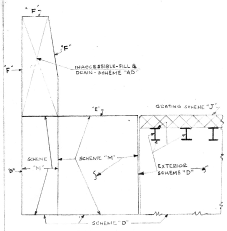
COMPARTMENT PAINTING - DECK - FCSLE DECK & LEVELS

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME BHD/OVHD	SCHEME DK	REMARKS
C	1	OPEN DECK (FCSLE DK)	P/S	BULWARK AF	E	STEM TO 19
	2	FORE MAST	℄	WEA F INT AC	-	18-20
B	3	CHIEF STEWARD S.R. (01-2)	P	Y	DK TILE REF#12	01 LEVEL FR 38 3/4-41
B	4	CHIEF STEWARD T/S	P	Y	LATEX MASTIC REF#12	FR 39 1/2-01 40 1/2 LVL
	5	PIPE & DUCT SPACE	P/S	W	—	FR 40 1/2-41
A	6	↓	↓	↓	—	01, 02, 03 LEV. (SEE SHT."14: LINE"35)
B	7	STEWARD'S STORES	P	W	Z	FR 42 3/4 -01 43 1/2 LVL
	8	ELECTRONIC SPARES (DF)	S	W	Z	01 LEVEL FR 38 3/4-41
B	9	PASSAGE	P/S	W	TILE	01 LEVEL FR 41-43
B	10	BOSN'S STORES (DC)	S	W	Z	FR 42 3/4- 01 43 1/2 LVL
B	11	PASSAGE	P/S	Y	DK TILE REF#12	FR 41-42 3/4 02 LEVEL
B	12	SHIPS OFFICE	S	Y	DK TILE REF#12	02 LEVEL FR 38 1/4-41
B	13	NAVIGATION LKR (DD)	S	W	Z	FR 42 3/4- 02 43 1/2 LVL
	14					
B	15	PILOT'S S.R. (02-2)	P	Y	DK TILE REF#12	02 LEVEL FR 38 1/4-41
B	16	PILOT'S T/S	P	Y	LATEX MASTIC REF#12	02 LEVEL FR 40-40 1/2
B	17	BONDED STORES (DE)	P	W	Z	FR 42 3/4-02 43 1/2 LVL
B S	18	CABLEWAY & PIPE SPACE	P/S	AU	Z	FR 36 3/4-44
B S	19	CABLEWAY & PIPE SPACE	P/S	IN WAY OF INSUL AU	—	↓
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					
	32					
	33					
	34					
	35					
	36					
	37					
	38					
	39					
	40					

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.

LYKES – PAINTING SCHEDULE | PLAN NO. 30261-01X1 | SECT. F | REV. S | SHEET 13



ELEVATOR STRUCT & PLATF
PAINTING INDICATION

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS.

LYKES - PAINTING SCHEDULE | PLAN NO. 30261-01X1 | SECT. F | REV H | SHEET 12B

GENERAL DYNAMICS, QUINCY DEC., 1973 6X

MA NO. 241-519-1-1 GD NO. 30261-01x1 FRAME ① 2 3 4

Sheets 69-72 of 103

(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	1	711	C.L.	1'-0" AFT 88 TO 1'-0" AFT 94	SP-10	A	-	-				SP-5	R_1		R_1	9'-6" BEL FLR GRATING	SHAFT ALLEY
												SP-6	R_2	-	R_2	ABV FLR GRATING	
												SP-6	N	N	N		BALLAST TK #9 C.L.
												SP-	-	S	-	9'-6" FLAT	SHAFT ALLEY
	2	524	P	3'-0" FWD 68 TO 3'-0" AFT 71	SP-10	A	-	-				SP-6	N	N	N		COFFERDAM-AFT
												SP-6	Q	Q	Q		STABILIZER DUCT
												SP-5	M	M	M		RES. FEED-INBD &AFT
												SP-6	N	N	N		COFFERDAM-FWD
	3	525	S	3'-0" FWD 68 TO 3'-0" AFT 71	SP-10	A	-	-				SP-6	N	N	N		COFFERDAM-FWD & AFT
												SP-5	M	M	M		RES FEED-INBD & AFT
												SP-6	N	N	N		COFFERDAM-FWD FR 70
												SP-5	R_1	R_1	-		MACHY SPACE
												SP-6	Q	Q	-		STABILIZER DUCT
	4	714	C.L.	1'-0" AFT 88 TO 1'-0" AFT 94	-	-	-	-				SP-6	-	-	N		BALLAST TK #9-C.L.
					SP-5	-	-	-		G	-	SP-6	N	N	N		BALLAST TK #9 P/S
												SP-6	-	Z	W	AFT BHD 94	PASSAGE- N.T. FLAT
	5	702	P	6'-0" AFT 82 TO 5'-0" AFT 88	SP-5	-	C	D	SHELL								
					SP-10	A	-	-	SHELL								
					SP-5	-	-	-	INBD LG BHD	G	-	SP-10	-	M	-	OUTBD LG BHD	LOWER DK - BARGE
												SP-5	M	M	M		BALLAST TK #8
												SP-6	N	-	N		BALLAST TK #9

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.
LYKES - MODULE PAINTING SCHEDULE
PLAN NO. 30261-01X1 | SECT. G | REV B | SHEET 2

(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	1	626	P	3'-0" FWD 79 TO 2'-0" AFT 82	SP-10	A	-	-	SHELL PLTG	--	-	SP-6	Q	-	Q	OUTBD	F.O. OVERFLOW TK
												SP-6	N	-	N	INBD	COFFERDAM
												SP-5	-	R_1	-	TOP I.B.	MACHY SPC.
	2	627	S	3'-0" FWD 79 TO 2'-0" AFT 82	SP-10	A	-	-	SHELL PLTG	-	-	SP-6	N	-	N		COFFERDAM-INBD
												SP-6	N	-	N		COFFERDAM-OUTBD
												SP-5	R_1	R_1	R_1	TOP I.B.	MACHY SPC.
												SP-6	Q	-	Q	FWD 79	SLUDGE TANK
	3	612	P	4'-0" AFT 76 TO 6'-0" AFT 82	SP-5	-	-	-	INBD	G	-	-	-	-	-		TOP SIDE LOWER DK
					SP-10	A	-	-	SHELL PLT			SP-5	R_1	–	R_1		MACHY SPC.
					SP-5	-	C	D	SHELL PLT			SP-6	R2	–	R2		MACHY SPC.
												SP-	-		-	18'-0" FLAT	MACHY SPC.
												SP-5	-	O	O	LWR DK	DISTILL. WATER TK
												SP-5	-	S	-	OUTBD	TOP SIDE LWR DK
	4	613	S	4'-0" AFT 76 TO 6'-0" AFT 82	SP-5	-	-	-	INBD	G	-	-	-	-	-		TOP SIDE LOWER DK
					SP-10	A	-	-	SHELL PLT			SP-5	R_1	—	R_1		MACHY SPC.
					SP-5	-	C	D	SHELL PLT			SP-6	R_2	—	R_2		MACHY SPC.
												SP-5	-	S	-	18'-0" FLAT	MACHY SPC.
												SP-5	-	S	-	OUTBD	TOP SIDE LWR DK
	5	622	P	3'-0" AFT 71 TO 11'-0" FWD 75	SP-10	A	-	-	SHELL			SP-6	N	N	N		COFFERDAM-OUTBD
												SP-5	M	M	M		RES FEED TK-INBD
												SP-5	R_1	R_1	-		TOP I.B.

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.
LYKES - MODULE PAINTING SCHEDULE
PLAN NO. 30261-01X1 | SECT. G | REV B | SHEET 1

(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	6	623	S	3'-0" AFT 71 TO 1'-0" FWD 75	SP-10	A	-	-				SP-6	N	N	N		COFFERDAM-OUTBD
												SP-5	M	M	M		RES FEED TK-INBD
												SP-5	R_1	R_1	-		TOP I.B.
	7	624	P	1'-0" FWD 75 TO 3'-0" FWD 79	SP-10	A	-	-				SP-6	N	N	N		COFFERDAM
												SP-6	Q	Q	Q		F.O. TK-OUTBD
												SP-6	Q	Q	Q		SLUDGE TK-INBD
												SP-5	R_1	R_1	-		TOP I.B.
	8	625	S	1'-0" FWD 75 TO 3'-0" FWD 79	SP-10	A	-	-				SP-6	N	N	N		COFFERDAM-OUTBD
												SP-6	Q	Q	Q		SLUDGE TK-INBD
												SP-5	R_1	R_1	-		TOP I.B.
	9	701	C.L.	2'-0" AFT 82 TO 1'-0" AFT 88	SP-10	A	-	-				SP-5	-	S	R_1	BEL FLR GRATING	FIRE & HEEL PUMP RM
												SP-6	N	N	N		COFFERDAM
												SP-5	-	R_1	R_1		MACHY SPC.
												SP-6	N	N	N		BALLAST TK #8 C.L.
	10	704	C.L.	2'-0" FWD 82 TO 1'-0" AFT 88	SP-10	A	-	-				SP-5	R_1	-	R_1	9'-6" BEL FLR GRATING	FIRE & HEEL PUMP RM
					SP-5	-	-	-	LWR DK	G	-	SP-6	R2	-	R2	ABV FLR GRATING	& SHAFT ALLEY
												SP-6	N	N	N		BALLAST TK #8 C.L.
												SP-5	M	M	M		BALLAST TK #8 P/S
												SP-5	-	S	-	18'-0" FLAT	FIRE & HEEL PUMP RM
												SP-5	-	S	-	18'-0" FLAT	SHAFT ALLEY

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.
LYKES - MODULE PAINTING SCHEDULE
PLAN NO. 30261-01X1 | SECT. G | REV B | SHEET 1-A

COMPARTMENT PAINTING - DECK - HOUSE TOP, PLATFORMS & POOP DECK

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME BHD/OVHD	SCHEME DK	REMARKS
	1	WEATHER DECK HOUSE TOP	P/S	-	E	FR 36-41
	2					
	3	RADAR PLATF UPPER MAST PLATE	℄	-	E	FR 39-41
	4					
	5	WEATHER DECK POOP DECK	P/S	-	E	FR 104-127
	6	ELEVATOR PLAT	P/S	-	E	FR 109-126 (SEE SECT F SHT #10 LINE #23)
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

REVISION	LINE NO.	COMPARTMENT	P/S	SCHEME BHD/OVHD	SCHEME DK	REMARKS
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					
	32					
	33					
	34					
	35					
	36					
	37					
	38					
	39					
	40					

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.
LYKES - PAINTING SCHEDULE
PLAN NO. 30261-01X1 | SECT. F | REV. 0 | SHEET 15

GENERAL DYNAMICS, QUINCY DEC., 1973 6X
MA NO.241-519-1-1 GD NO.30261-01x1 FRAME ① 2 3 4
Sheets 73-76 of 103

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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	1	821	C.L.		SP-5	B	-	-	EXT.	-	-	FILL&DRN	I N	T E R	I O R	AD	RUDDER HORN
					SP-5	-	C	-		-	-	-	-	-	-	TRANS109	BOOT TOPPING
				1'-0" FWD								SP-6	Z	—	W		STEERING GEAR RM
				104 TO								SP-6	N	N	N		COFFERDAM-AFT
				109	SP-5	-	-	-		G	-	-	-	-	-		LOWER BARGE DK
					SP-5	-	-	-		H_1	-	-	-	-	-	COVER PLT	FOR RUDDER STOCK
												SP-5		S	-	FLATS	STEERING GEAR RM
D												↩	AK	AK	AK	INACCESS.	RECESS, IN WAY OF STERN GATE
	2	501	C.L.		SP-10	A	-	-		-	-	SP-6	O	O	O	C.L.	FUEL OIL TANK #6
												SP-5	-	-	M / 2	P.&S.	BALLAST TK #6
				1'-0" FWD													
				58 TO													
				1'-0" FWD													
				64													
	3	411	C.L.		SP-10	A	-	-	SHELL	-	-	SP-6	O	O	O		F.O. TANK #5
												SP-6	N	-	N		BALLAST TK #5
				1'-0" FWD													
				52 TO													
				1"-0" FWD													
				58													
	4	715	C.L.		SP-5	-	-	-	MN DK	G	-	-	-	-	-		
					SP-10	-	-	-	STANS&OVHD	-	H_2						
				1'-6" AFT	SP-5	-	-	-	STANS	-	H_1						
				87 TO													
				1'-0" AFT													
				93													
	5	717	S		SP-5	-	-	D	SHELL	-	-	SP-5	M	M	M		BALLAST TK #8(S)
												SP-6	N	N	N		BALLAST TK #9 (S)
				1'-6" AFT	SP-5	-	-	-		G	AF	-	-	-	-	MN DK	MOORING STA.
				87 TO								SP-6	W	Z	W		ROPE LKR & PASS.
				1'-0" AFT	SP-5	-	-			E	-	-	-	-	-		UPPER DK - BARGE
				93								SP-6	W	Z	W		PASS. & STOW.
					SP-5	-	-	-		-	H_1	-	-	-	-	12" UP	STEEL WINGWALL
					SP-10	-	-	-		-	H_2	-	-	-	-	ABV 12"UP	STEEL WINGWALL

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS. J. | LYKES - MODULE PAINTING SCHEDULE | PLAN NO. 30261-01X1 | SECT. G | REV D | SHEET 4

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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	1	603	S		SP-10	A	-	-	BEL LLW	-	-	SP-6	Q	Q	Q		STABILIZER SPC.
						-	C	-	ABV LLW	-	-	SP-5	R_1	R_1	R_1	BEL FLAT	MACHY SPC.
				2'-0" FWD								SP-6	R_2	-	R_2	ABV FLAT	MACHY SPC.
				70 TO								SP-5	-	S	-	FLR PLTS	18'-0" FLAT
				4'-0" AFT								SP-5	-	S	-	TOP SIDE	MACHY CASING
				76	SP-5	-	-	-		G	-	-	-	-	-		LOWER BARGE DK
	2	522	P		SP-10	A	-	-		-	-	SP-6	N	N	N		COFFERDAM
												SP-6	N	N	N		BALLAST #7 (P)
				1'-0" FWD								SP-5	M	M	M	FWD	BALLAST #6 (P)
				64 TO								SP-6	Q	Q	Q	AFT	STABILIZER SPC.
				2'-0" FWD								SP-6	Q	Q	Q	FWD	F.O. TK #6 C.L.
				68								SP-5	-	O	-	TOP SIDE	POT. WATER TK.
	3	523	S		SP-10	A	-	-		-	-	SP-6	N	N	N		COFFERDAM
												SP-6	N	N	N		BALLAST #7 (S)
				1'-0" FWD								SP-5	M	M	M	FWD	BALLAST #6 (S)
				64 TO								SP-6	Q	Q	Q	AFT	STABILIZER SPC.
				3'-0" FWD								SP-6	Q	Q	Q	FWD	F.O. TK #6 C.L.
				68								SP-5	-	O	-	TOP SIDE	POT. WATER TK.
	4	705	C.L.		SP-5	-	-	-	TOPSIDE	G	-	-	-	-	-		MN DK - BARGE
					SP-10	-	-	-	UNDERSIDE	-	H_2	-	-	-	-		STRUCT. & STAN.
				1'-0" AFT													
				81 TO													
				1'-6" AFT													
				87													
	5	706	P		SP-5	-	-	D		-	-	SP-5	M	-	M		BALLAST #8 (P)
												SP-5	-	S	-		MACHY CASING
				1'-0" AFT	SP-5	-	-	-	STL WING	-	H_1	SP-6	R_2	-	R_2		MACHY CASING
				81 TO	SP-10	-	-	-	WALLS	-	H_2						
				1'-6"AFT87	SP-5	-	-	-		G	AF	-	-	-	-	MN DK	MOORING STA.
												SP-6	W	Z	W	CABIN DK	DIESEL GEN RM
					SP-5	-	-	-	UPPER DK	E	-	SP-5	Q	-	Q	LOWER DK	DISTILLED WATER TK

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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	6	712	P		SP-10	A	-	-	SHELL	-	-						
					SP-5	-	C	D	SHELL	-	-						
				5'-0" AFT								SP-6	N	-	N		BALLAST TK #9
				88 TO		-	-	-			-	SP-5	M	-	M		BALLAST TK #10
				4'-0" AFT	SP-5	-	-	-	INBD LG BHD	G	-	SP-6	-	N	-	OUTBD LG BHD	LOWER DK - BARGE
				94													
	7	713	S		SP-10	A	-	-	SHELL	-	-						
					SP-5	-	C	D	SHELL	-	-						
				5'-0" AFT								SP-6	N	-	N		BALLAST TK #9
				88 TO								SP-5	M	-	M		BALLAST TK #10
				48" AFT	SP-5	-	-	-	INBD LG BHD	G	-	SP-6	-	N	-	OUTBD LG BHD	LOWER DK - BARGE
				94													
	8	802	P		SP-5	-	C	D	SHELL	-	-	SP-5	M	M	M		BALLAST TK #10
												SP-5	M	M	M		BALLAST TK #11
				4'-0" AFT	SP-5					G	-	-	-	-	-		LOWER DK - BARGE
				94 TO													
				2'-0" AFT													
				99													
	9	803	S		SP-5	-	C	D	SHELL	-	-	SP-5	M	M	M		BALLAST TK #10
												SP-5	M	M	M		BALLAST TK #11
				4'-0" AFT	SP-5	—	—	—	—	G	-	- -	-	-	-		LOWER DK - BARGE
				94 TO													
				2'-0" AFT													
				99													
	10	811			SP-10	A	-	-	SHELL	-	-	SP-6	W	—	W		STEERING GEAR RM
					SP-5	-	C	-	SHELL	-	-	SP-6	-	—	W		HYD STEER PUMP RM
				2'-0" AFT	SP-5	-	-	-	LWR DK	G	-	SP-5	M	-	M		BALLAST #11(P)&(S)
				99 TO								FILL&DRN	- I	N T E	R I O R	AD	SHAFT TUBE
				1'-0" FWD								SP-6	N	-	N		C.D. SHAFT ALLEY
				104								SP-5	-	S	-	FLATS	STEERING GEAR RM
												SP-5	-	S	-	FLATS	HYD STEER PUMP RM

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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	6	703	S		SP-5	-	C	D	SHELL	-	-						
					SP-10	A	-	-	SHELL	-	-						
				6'-0" AFT	SP-5	-	-	-	INBD LG BHD	G	-	SP-10	-	M	-	OUTBD LG BHD	LOWER DK - BARGE
				82 TO								SP-5	M	M	M		BALLAST TK #8
				5'-0" AFT								SP-6	N	-	N		BALLAST TK #9
				88													
	7	707	S									SP-5	M	-	M		BALLAST TK #8
												SP-6	R2	-	R2	MN. CAB. & LOWER	MACHY CASING
				1'-0" AFT								SP-5	-	S	-	MN &CABIN	MACHY CASING
				81 TO	SP-5	-	-	D		G	AF	-	-	-	-	MN DK	MOORING STA.
				1'-6" AFT								SP-6	-	-	W		ENGRS PLAT HOIST
				87	SP-5	-	-	-	STL WING	-	H_1	SP-6	W	Z	W	CABIN DK	PASS & STOW AREA
					SP-10	-	-	-	WALLS	-	H_2						
					SP--5	-	-	-	-	E	-	-	-	-	-	WEATHER	UPPER DK
	8	801	C.L.									SP-5	R_1	R_1	R_1	TANK TOP	SHAFT ALLEY C.L.
												SP-6	R_2	S	R_2	ABV GRAT.	SHAFT ALLEY C.L.
				1'-0" AFT								SP-6	N	-	N	OUTBD S.A.	VOID - P/S
				94 TO	SP-10	A	-	-				SP-6	N	N	N	BEL S.A.	COFFERDAM
				2'-0" AFT								SP-6	-	Z	-		PASSAGE-FLAT 11'-2"
				99													BEL. LOWER DK
												SP-5	-	-	M		BALLAST TK 10(P/S)
	9	804										SP-6	-	-	W		PASSAGE-FLAT 11'-2"
												-	-	-	-		BEL. LOWER DK
				1'-0" AFT								SP-5	-	-	M		BALLAST TK #10(P/S)
				94 TO	SP-5	-	-	-		G	-	-	-	-	-		LOWER BARGE DK
				2'-0" AFT													
				99													
	10	602	P		SP-10	A	-	-	BEL LLWL	-	-	SP-6	Q	Q	Q		STABILIZER SPC
					SP-5	-	C	-	ABV LLWL	-	-	SP-5	R_1	R_1	R_1	BEL FLAT	MACHY SPACE
				2'-0" FWD								SP-6	R_2	-	R_2	ABV FLAT	MACHY SPACE
				70 TO								SP-5	-	S	-	FLR PLTS	18'-0" FLAT
				4'-0" AFT								SP-5	-	S	-	TOP SIDE	MACHY CASING
				76	SP-5	-	-	-		G	-	-	-	-	-		LOWER BARGE DK.

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REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					COMPT. TYPE
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		
	6	815			SP-5	-	-	-	MN DK	G	-	SP-10	-	-	H_2		OVERHD & STANS.
												SP-5	-	-	H_1		STANS 24"ABV LWR DK
				2'-0" AFT													
			C.L.	99 TO													
				108													
	7	816			SP-5	-	C	D				SP-5	M	-	M		BALLAST TK #11
												SP-6	W	Z	W	CABIN DK	PASSAGE
				2'-0" AFT													
			P	99 TO	SP-10						H_2	-	-	-	-		STL WINGWALLS
				2'-6" FWD	SP-5	-	-	-			H_1	-	-	-	-		STL WINGWALLS
				106	SP-5	-	-	-	UPPER DK	E	-	SP-6	W	Z	W	UPPER DK	BOSN. LKR.
												SP-6	-	Z	W	UPPER DK	PASSAGE
					SP-5	-	-	-	POOP DK	E	-						
	8	817			SP-5	-	C	D				SP-5	M	-	M		BALLAST #11
												SP-6	W	Z	W	CABIN DK	PASSAGE
				2'-0" AFT								SP-6	W	Z	W	CABIN DK	ELECT. STORERM
			S	99 TO	SP-10	-	-	-			H_2	-	-	-	-		STL WINGWALLS
				2'-6" FWD	SP-5	-	-	-			H_1	-	-	-	-		STL WINGWALLS
				106	SP-5	-	-	-		E	-	SP-6	W	Z	W	UPPER DK	BOSN LKR
												SP-6	-	Z	W	UPPER DK	PASSAGE
					SP-5	-	-	-	POOP DK	E	-	SP-6	W	LATEX TILE	W	UPPER DK	LONG SHOREMAN TOILET
	9	902			SP-5	-	-	-	POOP DK	E		SP-6	W	Z	W		ROPE LKRS- STRMS- BOSN LKR.
					SP-5	-	-	-	UPPER DK	E	F	-	-	-	-		ACCESS TO SECURING RATCHETS
				2'-6" FWD								SP-6	W	Z	W		PASS MACHY RM CENTRAL HYD SYSTEM ETC.
				106 TO								SP-5	M	M	M		BALLAST #11
			P	19 1/4"AFT	SP-5	—	—	—		G	AF	-	-	-	-		MOORING STA.
				110								SP-6	N	N	N		BALLAST #12 & COFF.
					SP-5		C	D		-	-	-	-	-	-		EXTERIOR
	10 .	903			SP-5	-	-	-	POOP DK	E		SP-6	W	Z	W		ROPE LKRS - STRMS- BOSN LKR
												SP-6	W	DK TILE	W		CLERK'S OFFICE
				2'-6" FWD	SP-5	-	-	-	UPPER DK	E	F	-	-	-	-		ACCESS TO SECURING RATCHETS
			S	106 TO								SP-6	W	Z	W		PASS MACHY RM FOR ELEV CONTROLS, ETC.
				19 1/4"AFT								SP-5	M	M	M		BALLAST #11
				110	SP-5					G	AF	-	-	-	-		MOORING STA.
												SP-6	N	N	N		BALLAST #12 & COFF.
					SP-5		C	D		-	-	-	-	-	-		EXTERIOR

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REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					COMPT. TYPE
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		
	1	812			SP-5	-	C	D	SHELL	-	-	-	-	-	-		
												SP-5	M	M	M		BALLAST TK #11(P)
				2'-0" AFT								SP-6	N	N	N		COFFERDAM
			P	99 TO	SP-5	-	-	-		G	-	-	-	-	-		LOWER BARGE DK
C				109								—	AK	AK	AK	INACESS	RECESS IN WAY OF STERN GATE
	2	813			SP-5	-	C	D	SHELL	-	-	-	-	-	-		
												SP-5	M	M	M		BALLAST TK #11 (S)
				2'-0" AFT								SP-6	N	N	N		COFFERDAM
			S	99 TO	SP-5	-	-	-		G	-	-	-	-	-		LOWER DK BARGE
C				109								—	AK	AK	AK	INACCESS	RECESS IN WAY OF STERN GATE
	3																
	4																
	5																

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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					COMPT. TYPE
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		
	1	805			SP-5	-	-	-		G	-	-	-	-	-		MAIN DK - BARGE
					SP-5	-	-	-		-	H_1	- -	-	-	-		PLTG & STANS BELOW
				1'-0" AFT	SP-10	-	-	-		-	H_2	-	-	-	-		STANS.
			C.L.	93 TO													
				2'-0" AFT													
				99													
	2	806			SP-5	-	-	-		E		-	-	-	-		UPPER DK - BARGE
												SP-5	M	M	M		BALLAST TKS#10&11(P)
				1'-0" AFT								SP-6	N	N	N		BALLAST TK #9 (P)
			P	93 TO								SP-6	W	Z	W		CABIN DK, PASS.
				2'-0" AFT	SP-5	-	-	-		-	H_1	-	-	-	-		STEEL WINGWALLS
				99	SP-10	-	-	-			H_2	-	-	-	-		STEEL WINGWALLS
					SP-5	-	-	D	SHELL			SP-6	-	Z	W		CO_2 RMS #1 & 2
	3	414										SP-6	-	-	N		BALLAST TK #5 P/S
												SP-6	-	-	Q		F.O. TANK #4&5 CL
				1'-0" FWD								SP-6	-	N	N	INSIDE	EQUALIZING DUCTS
			C.L.	52 TO	SP-5	-	-	-	LWR DK	G	-	SP-6	-	Q	Q	OUTSIDE	EQUALIZING DUCTS
				1'-0" FWD													
				58													
	4	509			SP-5	-	-	-	LWR DK	G	-	SP-5	-	O	O		POTABLE WATER TK
												SP-6	-	N	N		COFFERDAM
				1'-0" FWD								SP-6	-	Q	Q	FWD 64	F.O. TANK
			C.L.	64 TO								SP-6	-	O	O		STABILIZER SPACE
				5'-0" AFT													
				67													
	5	807			SP-5	-	-	-		E	-	-	-	-	-		UPPER DK - BARGE
												SP-5	M	M	M		BALLAST TKS #10&11(S)
				1'-0" AFT								SP-6	N	N	N		BALLAST TK #9 (S)
			S	93 TO								SP-6	W	Z	W		CABIN DK. PASS.
				2'-0" AFT	SP-5	-	-	-		H_1		-	-	-	-		STEEL WINGWALLS
				99	SP-10					H_2		-	-	-	-		STEEL WINGWALLS
					SP-5	-	-	D	SHELL								

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REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					COMPT. TYPE
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		
	6	717 (CONTD.)			SP-5	-	-	-		E	-	-	-	-	-		UPPER BARGE DK
					SP-5	-	-	-			H_1	-	-	-	-		STL WINGWALL
				1'-6" AFT	SP-10	-	-	-			H_2	-	-	-	-		STL WINGWALL
				87 TO	SP-5	-	-	D	SHELL								
			S	1'-0" AFT													
				93													
	7	716										SP-5	M	M	M	LOWER DK	BALLAST #8
												SP-6	N	N	N	LOWER DK	BALLAST #9
				1'-6" AFT								SP-6	N	N	N	MN DK	BALLAST #9
				87 TO	SP-5	-	-	-		G	AF	-	-	-	-	MN DK	MOORING STA.
			P	1'-0" AFT								SP-6	W	Z	W	MN DK	ROPE LKR. & PASS.
				93								SP-6	W	Z	W	CABIN DK	DIESEL GEN. RM.
												SP-6	W	Z	W	CABIN DK	PASSAGE
												SP-6	W	Z	W	CABIN DK	DIESEL SPARES (EB)
	8	716 (CONTD)										SP-6	W	Z	W	CABIN DK	CO_2 ROOM #1
					SP-5	-	-	-		E	-	-	-	-	-	-	UPPER BARGE DECK
				1'-6" AFT	SP-5	-	-	-			H_1	-	-	-	-	-	STL WINGWALL
			P	87 TO	SP-10	-	-	-			H_2	-	-	-	-	-	STL WINGWALL
				1'-0" AFT	SP-5	-	-	D	SHELL								
				93													
	9	514			SP-5	-	-	-		G	-	-	-	-	-		LOWER DK - BARGE
												SP-6	-	Q	Q		STABILIZER DUCT
				5'-0" AFT								SP-6	-	Q	Q		STABILIZER (SPACE)
			C.L.	67 TO								SP-6	-	-	W	TOP I.B.	F.D. BLOWER RM
				2'-0" AFT								SP-6	-	-	R_2	TOP I.B.	MACHY SPACE
				72													
	10	611										SP-5	-	R_1	R_1	TOP I.B.	INTERNAL SPC IN REDUC. GEAR FDN
												SP-6	-	Q	Q	INSIDE	LUB OIL SUMP
			C.L.	77-83	-	-	-	-	-	-	-	SP-5	-	R_1	R_1	BEL GRTG.	OUTSIDE REDUCT GEAR FDN.
												SP-6	-	R_2	R_2	ABV GRTG.	OUTSIDE REDUCT GEAR FDN.

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MA NO. 241-519-1-1 GD NO. 30261-01x1 Sheets 77-80 of 103 FRAME ① 2 3 4

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REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	1	906			SP-5	-	C	D	SHELL	-	-	SP-6	N	N	N		WING TANK #12
					SP-5	-	-	-	MN DK	G	AF	-	-	-	-		MOORING STA.
				2'-6" AFT	SP-5	-	-	-	UPPER DK	E	F	-	-	-	-		ACCESS PASS TO RATCHETS
			P	115 TO	SP-5	-	-	-	POOP DK	E	-						
				2'-3" FWD								SP-6	W	Z	W	CABIN DK	BARGE ELEV MACH RM
				120													
	2	907			SP-5	-	C	D	SHELL	-	-	SP-6	N	N	N		WING TANK #12
					SP-5	-	-	-	MN DK	G	AF	-	-	-	-		MOORING STA.
				2'-6" AFT	SP-5	-	-	-	UPPER DK	E	F	-	-	-	-		ACCESS PASS TO RATCHETS
			S	115 TO	SP-5	-	-	-	POOP DK	E	-						
				2'-3" FWD								SP-6	W	Z	W	CABIN DK	BARGE ELEV MACH RM
				120													
	3	311			SP-10	A	-	-	SHELL	-	-	SP-6	Q	-	Q		FUEL OIL TK #3
												SP-5	M	-	M	FWD 40	BALLAST TK #2 C.L.
				1'-0" FWD													
			C.L.	40 TO													
				1'-0" FWD													
				46													
C	4	512			SP-5	-	C	D				SP-5	M	M	M		BALLAST TK #6
					SP-10	A	-	-				SP-6	N	N	N		BALLAST TK #7
				1'-0" FWD								SP-6	Q	Q	Q		STABILIZER SPACE
			P	64 TO	SP-5	-	-	-	LWR DK	G	-	SP-6	-	N	-		VOID FRS 67-70
				2'-0" FWD													
				70													
C	5	513			SP-5	-	C	D				SP-5	M	M	M		BALLAST TK #6
					SP-10	A	-	-				SP-6	N	N	N		BALLAST TK #7
				1'-0" FWD								SP-6	Q	Q	Q		STABILIZER SPACE
			S	64 TO	SP-5	-	-	-	LWR DK	G	-	SP-6	-	N	-		VOID FRS 67-70
				2'-0" FWD													
				70													

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REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD	9'-6"	COMPT. TYPE
	1	604			SP-5	-	-	-	LWR DK	G	—	SP-6	-	-	R2	ABV GRATG	MACHY SPACE
												SP-5	-	-	R1	BEL GRATG	MACHY SPACE
				2'-0" AFT													
			C.L.	72 TO													
				4'-0" AFT													
				76													
	2	619			-	-	-	-		-		SP-6	-	-	R2	ABOVE	9'-6" FLAT
												SP-5	-	-	R1	BELOW	9'-6" FLAT
				4'-0"AFT 76								SP-5	-	S	R	TOP SIDE	9'-6" &18'-0" FLATS
			C.L.	12 FWD													
				82													
	3	904			SP-5	-	-	-	POOP DK	E	-						
					SP-5	-	C	D									
				2'-0" AFT	SP-5				UPPER DK	E	F						
			P	110 TO								SP-6	W	Z	W		CABIN DK
				2'-0" AFT	SP-5				MAIN DK	G	AF	—	—	—	—		MOORING STA.
				115								SP-6	N	-	N		BALLAST TK #12
	4	905			SP-5	-	-	-	POOP DK	E	-						
					SP-5	-	C	D		-	-						
				2'-0" AFT	SP-5				UPPER DK	E	F						
			S	110 TO								SP-6	W	Z	W		CABIN DK
				2'-0" AFT	SP-5	-	-	-	MAIN DK	G	AF	—	—	—	—		MOORING STA.
				115								SP-6	N	-	N		BALLAST TK #12
	5	401			SP-10	A	-	-	SHELL	-	-	SP-6	Q	-	Q		F.O. TANK #4
				1'-0" FWD													
				46 TO													
				1'-0" FWD													
				52													

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.
LYKES - MODULE PAINTING SCHEDULE
PLAN NO. 30261-01X1 SECT. G REV B SHEET 7

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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	6	502			SP-10	A	-	-	SHELL	-	-						
					SP-5	-	C		SHELL	-	-						
				1'-0" FWD	SP-5				INBD	G.	-	SP-5	M	M	M	AFT BHD58	BALLAST #6 P
			P	58 TO								SP-6	N	N	N	FWD BHD58	BALLAST #5 P
				1'-0" FWD													
				64													
	7	503			SP-10	A	-	-	SHELL	-	-	SP-6	N	-	N		F.O. TANK #5
					SP-5	-	C	-	SHELL	-	-	SP-5	M	-	M		F.O. TANK #6
				1'-0" FWD	SP-5	-	-	-	INBD	G	-	SP-5	M	-	-	OUTBD	LOWER DK BARGE
			S	58 TO													
				1'-0" FWD													
				64													
	8	504			SP-5	-	-	-	LWR DK	G	-	SP-5	-	-	M		BALLAST TK #6 P/S
												SP-5	-	M	M	INTERIOR	EQUALIZER DUCT
				1'-0" FWD								SP-6	-	-	Q	FWD &AFT	F.O. TK #5 & 6
			C.L.	58 TO								SP-6	-	-	Q	OUTSIDE	EQUALIZER DUCT
				1'-0" FWD													
				64													
	9	609			-	-	-	-	-	-	-	SP-5	-	S	-		18'-0" FLAT
												SP-5	-	R2	-	UNDERSIDE	18'-0"FLAT & STAN
				FR 70								SP-6	-	R2	R2	OUTSIDE	FORCE DRAFT BLOWER TRK
			C.L.	TO										W	W	INSIDE	FORCE DRAFT BLOWER TRK
				4'-0" AFT													
				76													
	10	615			SP-5	-	-	-	MN DK	G	-						
					SP-10	-	-	-	STAN & OVERHEAD	-	H2						
				1'-0" AFT	SP-5	-	-	-	STAN	-	H1						
			C.L.	75 TO													
				1'-0" AFT													
				81													

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.
LYKES - MODULE PAINTING SCHEDULE
PLAN NO. 30261-01X1 SECT. G REV B SHEET 7-A

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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	1	902 (CONT'D)										-	AK	AK	AK	INACCESS	RECESS IN WAY OF
																	STERN GATE
				CONT'D FROM SHT.													FRS 108-109
				#6-A													
	2	903 (CONT'D)										-	AK	AK	AK	INACCESS	RECESS IN WAY OF
				CONT'D FROM													STERN GATE
				SHT.													FRS 108-109
				#6-A													
	3																
	4																
	5																

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS.
LYKES - MODULE PAINTING SCHEDULE
PLAN NO. 30261-01X1 SECT. G REV D SHEET 6-B

GENERAL DYNAMICS, QUINCY DEC., 1973 6X
MA NO. 241-519-1-1 GD NO. 30261-01x1 FRAME ① 2 3 4
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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	6	304			SP-5	-	-	-		G	-	SP-5	-	-	M	FWD 34	BALLAST TK #1 P/S
												SP-5	-	-	M		BALLAST TK #2 CL
				1'-0" FWD								SP-6	-	-	N	OUTBD	BALLAST TK #2 P/S
			CL	74 TO													
				1'-0" FWD													
				40													
	7	404			SP-5	-	-	-	LWR DK	G	-	SP-6	-	-	Q	AFT 46 BHD	FUEL OIL TK #4
												SP-6	-	-	Q	FWD 46 BHD	FUEL OIL TK #3
				1'-0" FWD													
			CL	46 TO													
				1'-0" FWD													
				52													
	8	413			SP-10	A	-	-	SHELL	-	-						
					SP-5	-	C	-	SHELL	-	-						
				1'-0" FWD	SP-5	-	-	-	INBD LG BHD	G	-	SP-6	-	N	-	OUTBD LG BHD	LOWER DK - BARGE
			S	52 TO								SP-6	N	-	N	FWD 52	BALLAST TK #4
				1'-0" FWD								SP-6	N	-	N	AFT 52	BALLAST TK #5
				58								SP-10	P	-	P		SEWAGE HOLD TK
	9	617			SP-5	-	-	-		E	-	-	-	-	-		UPPER DK - BARGE
					SP-5	-	-	D	SHELL PLTG	-	-	SP-6	R_2	-	R_2		MACH CASING
				1'-0" AFT	SP-5	-	-	-	INBD SIDE WINGWALL	-	H_1						
			S	75 TO	SP-10	-	-	-	INBD SIDE WINGWALL	-	H_2	SP-5	-	S	-	MN &CABIN	MACH CASING
				1'-0" AFT													
				81													

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.
LYKES - MODULE PAINTING SCHEDULE
PLAN NO. 30261-01X1 SECT. G REV B SHEET 10-A

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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	1	606			SP-5	-	-	D	SHELL PLTG	E	-	-	-	-	-		UPPER DK BARGE
												SP-6	R_2	-	R_2		MACHY CASING
				1'-0" AFT								SP-6	W	-	W	UPPER DK	UNASSIGNED-FWD 70
			P	69 TO								SP-6	R_2	-	R_2	MN&CABIN	MACHY SPACE
				1'-0" AFT								SP-5	-	S	-	MN&CABIN	MACHY SPACE
				75								SP-5	Y	TILE	Y	MN&CABIN	PASSAGE
					SP-5	-	-	-	INBD	-	H_1	SP-5	H_1	-	H_1	FLAT	F.O. STA.
					SP-10	-	-	-	INBD	-	H_2	SP-10	H_2	-	H_2	FLAT	F.O. STA.
	2	607			SP-5	-	-	D	SHELL PLTG	E	-	-	-	-	-		UPPER DK BARGE
												SP-6	R_2	-	R_2		MACHY CASING
				1'-0" AFT								SP-6	W	-	W	UPPER DK	UNASSIGNED-FWD 70
			S	69 TO								SP-6	R_2	-	R_2	MN&CABIN	MACHY SPACE
				1'-0" AFT								SP-5	-	S	-	MN&CABIN	MACHY SPACE
				75								SP-5	H_1	-	H_1	FLAT	F.O. STA.
												SP-10	H_2	-	H_2	FLAT	F.O. STA.
	3																
	4																
	5																

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.
LYKES - MODULE PAINTING SCHEDULE
PLAN NO. 30261-01X1 SECT. G REV B SHEET 9

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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	1																
	2	616			SP-5	-	-	-	UPP DK	E	-						
					SP-5	-	-	D	SHELL PLTG	-	-	SP-6	R_2	-	R_2		MACH CASING
				1'-0" AFT	SP-5	-	-	-	INBD SIDE WINGWALL	-	H1						
			P	75 TO	SP-10	-	-	-	INBD SIDE WINGWALL	-	H_2	SP-5	-	S	-	MN&CABIN	MACH CASING
				1'-0" AFT								SP-5	-	O	O		DISTILL WATER TK
				81													
	3	708			SP-5	-	-	-	UPP DK	E	-	-	-	-	-		UPPER DK BARGE
									STANS & OVERHD	-	H_2						
				1'-0" AFT					STANS	-	H_1						
			CL	81 TO													
				1'-6" AFT													
				87													
	4	912			SP-5	-	-	-	POOP DK	E	-						
					SP-5	-	-	-	UPP DK	E	E		-	-	-		ACCESS TO SECURING RATCHETS
				2'-0" FWD								SP-6	W	Z	W	CABIN DK	UNASSIGNED BARGE ELEV MACH RM
			P	125 TO	SP-5		-	-	MAIN DK	G	AF	-	-	-	-		MOORING STA
				STERN								SP-6	N	-	N		BALLAST TK #12
					SP-5	-	C	D	SHELL	-	-	-	-	-	-		EXTERIOR
	5	913			SP-5	-	-	-	POOP DK	E	-						ELEV STERN GATE OPER STA
					SP-5	-	-	-	UPP DK	E	F		-	-	-		ACCESS TO SECURING RATCHETS
				2'-0" FWD					OPER FLAT	E	F		-	-	-		ELEV STERN GATE OPER STA
			S	125 TO								SP-6	W	Z	W	CABIN DK	UNASSIGNED BARGE ELEV MACH RM
				STERN	SP-5		-	-	MAIN DK	G	AF	-	-	-	-		MOORING STA
												SP-6	N	-	N		BALLAST TK #12
																	EXTERIOR
					SP-5	-	C	D	SHELL								

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.
LYKES - MODULE PAINTING SCHEDULE
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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	6	614			SP-5	-	-	-	LWR DK	G		SP-6	-	-	R_2	ABV 9'-6" FLAT	MACHY SPACE
				4'-0" AFT								SP-5	-	-	R_1	BEL 9'-6" FLAT	MACHY SPACE
				76 TO													
			C.L.	2'-0" FWD													
				82													
	7	618			SP-5	-	-	-		E	-	-	-	-	-		UPPER DK -BARGE
					SP-10	-	-	-		-	H_2	-	-	-	-		OVERHD & STANS BEL
				1'-0" AFT	SP-5	-	-	-		-	H1	-	-	-	-		STANS BEL
			C.L.	75 TO													
				1'-0" AFT													
				81													
	8	908			SP-5	-	-	-	UPPER & POOP DK	E	F	SP-6	W	Z	W		CABIN DK
					SP-5	-	-	-	MN DK	G	AF	SP-6	N	N	N	LWR DK	BALLAST TK #12
				2'-0" AFT	SP-5	-	C	D	SHELL								
			P	118 TO													
				2'-0" AFT													
				122													
	9	909			SP-5	-	-	-	UPPER & POOP DK	E	F	SP-6	W	Z	W		CABIN DK
					SP-5	-	-	-	MN DK	G	AF	SP-6	N	N	N	LWR DK	BALLAST TK #12
				2'-0" AFT	SP-5	-	C	D	SHELL	-	-						
				118 TO													
				2'-0" AFT													
				122													
	10																

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.
LYKES - MODULE PAINTING SCHEDULE
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GENERAL DYNAMICS, QUINCY DEC., 1973 6X
MA NO.241-519-1-1 GD NO.30261-01x1 FRAME ① 2 3 4
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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					COMPT. TYPE
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		
	1	402	P	1'-0" FWD 56 TO 1'-0" FWD 52	SP-10	A	-	-	SHELL	-	-	SP-6	N	-	N	OUTBD	BALLAST TK #4 P
					SP-5	-	C	-	SHELL	-	-	SP-10	-	P	P	INBD	SEWAGE HOLDG TK
												SP-6	-	-	Q	OUTSIDE	EQUALIZING PIPE
												SP-6	-	-	N	INSIDE	EQUALIZING PIPE
												SP-6	-	-	Q		F.O. TANK #4 CTR
	2	403	S	1'-0" FWD 56 TO 1'-0" FWD 52	SP-10	A	-	-	SHELL	-	-	SP-6	N	-	N	OUTBD	BALLAST TK #4 S
					SP-5	-	C	-	SHELL	-	-	SP-10	-	P	P	INBD	SEWAGE HLDG TK
												SP-6	-	-	Q	OUTSIDE	EQUALIZING PIPE
												SP-6	-	-	N	INSIDE	EQUALIZING PIPE
												SP-6	-	-	Q		F.O. TANK #4 CTR
	3	301	CL	1'-0" FWD 34 TO 1'-0" FWD 40	SP-10	A	-	-	SHELL	-	-	SP-5	M	-	M	FWD 34	BALLAST TK #1 P/S
												SP-5	M	-	M	AFT 34	BALLAST TK #2
	4	412	P	1'-0" FWD 52 TO 1'-0" FWD 58	SP-5	-	-	-	LG INBD BHD	G	-	SP-6	-	N	-	OUTBD LG BHD	LOWER DK - BARGE
					SP-5	-	C	-	SHELL	-	-	SP-6	N	-	N	FWD 52	BALLAST TK #4
					SP-10	A	-	-	SHELL	-	-	SP-6	N	-	N	AFT 52	BALLAST TK #5
												SP-10	P	-	P		SEWAGE HOLDG TK
	5	819	CL	105 TO 109	SP-5	B	-	-	EXTERIOR	-	-	NOT REQD	AD	AD	AD	INTERIOR	RUDDER ASSEMBLY

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.
LYKES - MODULE PAINTING SCHEDULE
PLAN NO. 30261-01X1 SECT. G REV B SHEET 11

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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					COMPT. TYPE
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		
	6	312	P	1'-0" FWD 40 TO 1'-0" FWD 46	SP-10	A	-	-	SHELL	-	-	SP-5	M	M	M		BALLAST TK #3
					SP-5	-	C	-	SHELL	-	-	SP-6	N	N	N	FWD 40	BALLAST TK #2
					SP-5	-	-	-	LG INBD BHD	G	-	-	-	-	-		LOWER DK - BARGE
												SP-5	-	M	-	OUTBD LG BHD	LOWER DK - BARGE
	7	313	S	1'-0" FWD 40 TO 1'-0" FWD 46	SP-10	A	-	-	SHELL	-	-	SP-5	M	M	M		BALLAST TK #3
					SP-5	-	C	-	SHELL	-	-	SP-6	N	N	N	FWD 40	BALLAST TK #2
					SP-5	-	-	-	LG INBD BHD	G	-	-	-	-	-		LOWER DK - BARGE
												SP-5	-	M	-	OUTBD LG BHD	LOWER DK - BARGE
C	8	516	P	1'-0" FWD 64 TO 1'-0" AFT 69	SP-5	-	-	D	SHELL			SP-6	N	-	N	FRS 67-70	~~UNASSIGNED~~ VOID
					SP-5	-	-	-	WINGWALL	-	H_1	SP-5	Y	DK TILE	Y		PASS & S. RMS-MN DK
					SP-10	-	-	-	WINGWALL	-	H_2	SP-5	M	-	M		BALLAST TK #6 P
					SP-10	-	-	-	F.O.FILLSTA	-	H_2	SP-6	N	-	N	-	BALLAST TK #7 P
					SP-10	-	-	-	F.O.FILLSTA	G	H_1	SP-5	Y	DK TILE	Y		PASS & S. RMS-MN DK
					SP-5	-	-	-	UPPER DK	E	-						
C	9	517		1'-0" FWD 64 TO 1'-0" AFT 69	SP-5	-	-	D	SHELL			SP-6	N	-	N	FRS 67-70	~~UNASSIGNED~~ VOID
					SP-5	-	-	-	WINGWALL		H_1	SP-6	W	Z	W	FRS 64-69	PASSAGE-MN DK
					SP-10	-	-	-	WINGWALL	-	H_2	SP-5	M	-	M		BALLAST TK #6 S
					SP-10	-	-	-	F.O.FILLSTA		H_2	SP-6	N	-	N		BALLAST TK #7 S
					SP-5	-	-	-	F.O.FILLSTA	G	H_1	SP-5	Y	DK TILE	Y		PASS & S. RMS-MN DK
					SP-5	-	-	-	UPPER DK	E	-						
	10	605	CL	1'-0"AFT 69 TO 1'-0"AFT	SP-5	-	-	-	MN DK	G	-						
					SP-10	-	-	-	UNDERSIDE MN DK	-	H_2						
					SP-10	-	-	-	STANS	-	H_2						
					SP-5	-	-	-	STANS	-	H_1						

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.
LYKES - MODULE PAINTING SCHEDULE
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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					COMPT. TYPE
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		
	1	608	CL	1'-0" AFT 69 TO 1'-0" AFT 75	SP-5	-	-	-	UPPER DK	E	-						
					SP-10	-	-	-	UNDERSIDE	-	H_2						
					SP-10	-	-	-	STANS	-	H_2						
					SP-10	-	-	-	FOOT OF STANS	-	H_1						
	2	718	CL	1'-6" AFT 87 TO 1'-0" AFT 93	SP-5	-	-	-	UPPER DK	E	-						
					SP-10	-	-	-	STANS	-	H_2						
					SP-5	-	-	-	STANS	-	H_1						
	3	808	CL	1'-0" AFT 93 TO 2'-0" AFT 99	SP-5	-	-	-		E	-						UPPER DK-BARGE
					SP-10	-	-	-		-	H_2						OVERHD &STANS BEL
					SP-5	-	-	-		-	H_1						OVERHD & STANS BEL
	4	506	P	1'-0" FWD 58 TO 1'-0" FWD 64	SP-5	-	-	D	SHELL	-	-	SP-6	-	-	N	FWD 58	BALLAST TK #5
					SP-5	-	-	-	UPPER	E	-	SP-5	M	-	M	AFT 58	BALLAST TK #6
												SP-5	Y	DK TILE	Y	MN DK	PASS & S. ROOMS
												SP-5	AF	-	AF	FWD 58	MOORING STA MN DK
												SP-5	Y	DK TILE	—	CABIN DK	PASS & S. ROOMS
	5	507	S	1'-0" FWD 58 TO 1'-0" FWD 64	SP-5	-	-	D	SHELL	-	-	SP-6	-	-	N	FWD 58	BALLAST TK #5
					SP-5	-	-	-	UPPER	E	-	SP-5	M	-	M	AFT 58	BALLAST TK #6
												SP-6	W	Z	W	MN DK	PASSAGE
												SP-5	AF	-	AF	FWD 58	MOORING STA MN DK
												SP-5	Y	DK TILE	Y	CABIN DK	PASS & S. ROOMS

GENERAL DYNAMICS
QUINCY DIVISION, QUINCY, MASS. J.
LYKES - MODULE PAINTING SCHEDULE
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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					COMPT. TYPE
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		
	6	302		1'-0" FWD 34 TO 1'-0" FWD 40	SP-10	A	-	-	SHELL	-	-	SP-6	N	-	N		BALLAST TK #2
					SP-5	-	C	-	SHELL	-	-	SP-5	M	-	M	FWD BHD34	BALLAST TK #1
					SP-5	-	-	-	LG INBD BHD	G	-	-	-	-	-		LOWER DK-BARGE
												SP-6	-	N	-	LG OUTBD BHD	LOWER DK-BARGE
	7	303	S	1'-0" FWD 34 TO 1'-0" FWD 40'	SP-10	A	-	-	SHELL	-	-	SP-6	N	-	N		BALLAST TK #2
					SP-5	-	C	-	SHELL	-	-	SP-5	M	-	M	FWD BHD34	BALLAST TK #1
					SP-5	-	-	-	LG INBD BHD	G	-	-	-	-	-		LOWER DK-BARGE
												SP-6	-	N	-	LG OUTBD BHD	LOWER DK-BARGE
	8	416	P	1'-0" FWD 52 TO 1'-0" FWD 58	SP-5	-	-	-	UPPER DK	E	-	SP-6	N	-	N		BALLAST TK #4 & 5
												SP-6	W	Z	W	MN DK	ROPE LKR & PASS.
					SP-5	-	-	-	MN DK	G	AF	-	-	-	-		MOORING STA
												SP-5	Y	DK TILE	Y	CABIN DK	STATERMS & PASS.
					SP-5	-	-	D	SHELL								
					SP-10	-	-	-	STL WING	-	H_2						
					SP-5	-	-	-	WALLS	-	H_1						
	9	915	CL	1'-0" FWD 64 TO 1'-0" AFT 69	SP-5	-	-	-	MN DK	G	-						
					SP-10	-	-	-	UNDERSIDE	-	H_2						
					SP-10	-	-	-	STANS	-	H_2						
					SP-5	-	-	-	FOOT OF STANS	-	H_1						
	10	518	CL	1'-0" FWD 64 TO 1'-0" AFT 69	SP-5	-	-	-	UPPER DK	E	-						
					SP-10	-	-	-	UNDERSIDE		H_2						
					SP-10	-	-	-		STANS	H_2						
					SP-10	-	-	-		FOOT OF STANS	H_1						

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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					COMPT. TYPE
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		
	1	408			SP-5	-	-	-	UPP. DK	E	-						
					SP-10	-	-	-	UNDSIDE	-	H_2						
				1'-0" FWD	SP-10	-	-	-	STANS	-	H_2						
			CL	46 TO	SP-5	-	-	-	FT. OF STANS	-	H_1						
				1'-0" FWD													
				52													
	2	105 GEN NOTE #5-U			SP-5	-	-	-	FOCLE DK	E	-	SP-6	W	Z	W	UPPER DK	BOSN LKR
					SP-5	-	-	-	UPPER DK	G	H_1						RECESS FOR TRANS LKR SYS
				1'-0" AFT	SP-10	-	-	-	UPPER DK	-	H_2						↓ ↓
			CL	10 TO	SP-5	-	-	D	SHELL								
				STEM													
	3																
	4																
	5																

GENERAL DYNAMICS
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LYKES - MODULE PAINTING SCHEDULE
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REV C
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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					COMPT. TYPE
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		
	1	818			SP-5	-	-	-	UPPER DK	E	-						
					SP-10	-	-	-	BEL UP. DK	-	H_2						
					SP-5	-	-	-	STANS	-	H_1						
	2	406			SP-5	-	-	-	UPPER DK	E	-	SP-5	M	-	M	FWD 46	BALLAST #3
												SP-10	N	--	N	AFT 46	BALLAST #4
				1'-0" FWD	SP-5	-	-	-	10'-9" FLAT	G	H_1	-	-	--	-	-	BOARDING VESTIBULE
			P	46 TO	SP-10	-	-	-	10'-9" FLAT	-	H_2	-	-	-	-	-	BOARDING VESTIBULE
				1'-0" FWD	SP-5	-	C	D	SHELL	-	-	SP-6	W	Z	W	MN DK	STOREROOMS
				52								SP-5	Y	DKTILE	Y	CABIN DK	STATERM AREA& PASS
					SP-5	-	-	-	FRS47-48	G	-	SP-5	-	-	W	MN DK	WATCHMANS STA
	3	417			SP-5	-	-	-	UPPER DK	E	-	SP-6	N	-	N		BALLAST TK #4 & 5
												SP-6	W	Z	W	MN DK	ROPE LKR & PASS
				1'-0" FWD	SP-5	-	-	-	MN DK	G	AF	-	-	-	-		MOORING STA
			S	52 TO								SP-5	Y	DKTILE	Y	CABIN DK	STATERMS & PASS
				1'-0" FWD	SP-5	-	-	D	SHELL								
				58	SP-10	-	-	-	STL WING	-	H_2						
					SP-5	-	-	-	WALLS		H_1						
	4	211			SP-5	-	-	-	LWR DK	G	-	SP-5	M	-	M		BALLAST TK #1 P/S
					SP-10	A	-	-	SHELL	-	-	SP-6	W	Z	W	FR 28-33	UNASSIGNED
				1'-0" AFT	SP-5	-	C	-	SHELL	-	-	SP-5	-	R_1	-	LWR DK	DRAIN WELL
			CL	28 TO													
				1'-0" FWD													
				34													
	5	407			SP-5	-	-	-	UPPER DK	E	-	SP-5	M	-	M	FWD 46	BALLAST #3
												SP-10	N	-	N	AFT 46	BALLAST #4
				1'-0" FWD	SP-5	-	-	-	10'-0" FLAT	G	H_1	-	-	-	-	-	BOARDING VESTIBULE
			S	46 TO	SP-10	-	-	-	"	-	H_2	-	-	-	-	-	BOARDING VESTIBULE
				1'-0" FWD	SP-5	-	C	D	SHELL	-	-	SP-6	W	Z	W	MN DK	STOREROOMS
				52								SP-5	Y	DK TILE	Y	CABIN DK	STATERM AREA & PASS
					SP-5	-	-	-	FRS 47-48	G	-	-	-	-	W	MN DK	WATCHMANS STA

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REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					COMPT. TYPE
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		
	6	505			SP-5	-	-	-	MN DK	G	-						
					SP-10	-	-	-	BEL.MN.DK	-	H_2						
				1'-0" FWD	SP-5	-	-	-	STANS	-	H_1						
			CL	58 TO													
				1'-0" FWD													
				64													
	7	508			SP-5	-	-	-	UPPER DK	E	-						
					SP-10	-	-	-	BEL.UP.DK	-	H_2						
				1'-0" FWD	SP-5	-	-	-	STANS	-	H1						
				58 TO													
			CL	1'-0" FWD													
				64													
	8	201			SP-10	A	-	-	SHELL	-	-	SP-5	R_1	R_1	R_1	BEL.FLAT	BOW THRUSTER RM
					SP-5	-	C	-	SHELL	-	-	SP-6	R_2	-	R_2	ABV. FLAT	BOW THRUSTER RM
				1'-0"AFT	SP-5	B	-	-	TUNNEL	-	-	-	-	-	-		BOW THRUSTER
			CL	22 TO								SP-6	N	N	N	FR 22-24	COFFERDAM
				1'-0"AFT								SP-6	-	Z	-		LOWER DK-BARGE
				28								SP-5	-	-	M	AFTBHD28	BALLAST TK #1 P/S
	9																
	10																

GENERAL DYNAMICS
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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					COMPT. TYPE
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		
	1	415			SP-5	-	-	-		G	-	-	-	-	-		MAIN DK - BARGE
					SP-10	-	-	-		-	H_2	-	-	-	-		OVERHD & STAN BEL
				1'-0" FWD	SP-5	-	-	-		-	H_1	-	-	-	-		OVERHD & STAN BEL
			CL	52 TO													
				1'-0" FWD													
				58													
	2	306			SP-5	-	-	-	UPPER DK	E	-	SP-6	N	-	N		BALLAST TK #2
					SP-5	-	-	D	SHELL	-	-	SP-6	W	Z	W	MN DK	FAN ROOM
												SP-6	W	Z	W	CABIN DK	DUCT& WIRING SPC
				1'-0" AFT								SP-5	Y	DK TILE	Y		SLOPE CHEST
			P	34 TO								SP-5	Y	DKTILE	Y		STATERM & PASS
				1'-0" FWD													
				40													
	3	307			SP-5	-	-	-	UPPER DK	E	-	SP-6	N	-	N		BALLAST TK #2
					SP-5	-	-	D	SHELL	-	-	SP-6	W	Z	W	MN DK	FAN ROOM
												SP-6	W	Z	W	CABIN DK	DUCT & WIRING SPC
				1'-0" AFT								SP-5	Y	DKTILE	Y		HOSPITAL & PASS
			S	34 TO								SP-5	Y	LATEX MASTIC	Y		OFFICERS LAUNDRY
				1'-0" FWD													
				40													
	4	405			SP-5					G		-	-	-	-		MAIN DK - BARGE
					SP-10					-	H_2	-	-	-	-		OVERHD & STAN BEL
				1'-0" FWD	SP-5					-	H_1	-	-	-	-		OVERHD & STAN BEL
			CL	46 TO													
				1'-0" AFT													
				52													
	5	418			SP-5					E	-	-	-	-	-		UPPER DK BARGES
					SP-10					-	H_2	-	-	-	-		OVERHD & STAN BEL
				1'-0" FWD	SP-5					-	H_1	-	-	-	-		↓ ↓ ↓
			CL	52 TO													
				1'-0" FWD													
				58													

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REV.	LINE NO.	MODULE NO.	P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	6																
	7	108 GEN NOTE #5-U	CL	1'-0" AFT 10 TO 1'-0" AFT ·22	SP-5	-	-	D	SHELL	-	-	SP-6	W	Z	W	UPPER DK	BOSN LKR
					SP-5	-	-	-	FOCLE DK	E	-						
					SP-10	-	-	-	UPP. DK	-	H_2	-	-	-	-		ANCHOR HDLG. STA. & RECESS FOR LOOPEE SYSTEM
					SP-5	-	-	-	UPP. DK	E	H1	-	-	-	-		
												SP-6	W	Z	W	CABIN DK	PAINT RM, STEW & BOSN STORES
												SP-6	R_2	Z	R_2	CABIN DK	ANCHOR WIND & HYD RM
	8	218 GEN NOTE #5-U	P	1'-0" AFT 22 TO 1'-0" AFT 28	SP-5	-	-	-	-	UPP. DK	AF	-	-	-	-	INSIDE	BULWARK
	9	219 GEN NOTE #5-U	S	1'-0" AFT 22 TO 1'-0" AFT 28	SP-5	-	-	-	-	UPP. DK	AF	-	-	-	-	INSIDE	BULWARK
	10	325 GEN NOTE 5-U	CL	MAIN MAST 40-42	SP-5	-	-	F	OUTSIDE	-	-	SP-6	-	-	AC	INTERIOR	MAIN MAST

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REV.	LINE NO.	MODULE NO.	P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	6	205	S	1'-0" AFT 22 TO 1'-0" AFT 28	SP-5	-	-	-	MN DK	G	-	SP-6	N	N	N	UNDERSUMP	COFFERDAM
					SP-5	-	C	D	SHELL	-	-	SP-6	W	-	W	LWR DK	ENGR STORES&UNASSIGN
												SP-5	-	M	M		CHAIN LKR & SUMP
												SP-6	W	Z	W	TWEEN DK	STORERMS & TRKS
												SP-6	W	Z	W	TWEEN DK	FAN ROOM
												SP-5	-	G	-	MN DK	MOORING STA
	7	214	P	1'-0" AFT 28 TO 1'-0" AFT 34	SP-5	-	C	D		-	-	SP-6	-	Z	-	MN DK	TRANSPORT MAINT. SHOP & ETC.
					SP-5	-	-	-	AFTBHD34	-	H_1	SP-6	W	Z	W	TWEEN DK	ENGINEERS STORES
					SP-10	-	-	-	"	-	H_2	SP-6	W	-	W	LOWER DK	OVERHD & SHELL
	8	215	S	1'-0" AFT 28 TO 1'-0" AFT 34	SP-5	-	C	D		-	-	SP-6	-	Z	-	MN DK	TRANSPORT MAINT. SHOP & ETC.
												SP-6	W	Z	W	TWEEN DK	ENGINEERS STORES
												SP-6	W	-	W	LOWER DK	OVERHD & SHELL
					SP-5	-	-	-	AFTBHD34	-	H_1						
					SP-10	-	-	-	"	-	H_2						
	9	305	CL	1'-0" AFT 34 TO 1'-0" FWD 40	SP-5	-	-	-	MN DK	G	-						BARGE DK
					SP-5	-	-	-	STANS	-	H_1						
					SP-10	-	-	-		-	H_2	-	-	-	-		OVERHD&STANS BEL
	10	102 GEN NOTE 5-U	CL	1'-0"AFT10 TO 1'-0" AFT 22	SP-5	-	C	D	SHELL			SP-5	-	G	-	CABIN DK	ANCHOR HDLG STA
					SP-10	A	-	-	SHELL			SP-5	AF	G	AF	MN DK	MOORING STA
												SP-5	M	-	M	MN DK	CHAIN LKR
												SP-6	N	N	N	BEL MN DK	FORE PEAK

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(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	1	308	CL	1'-0" AFT 34 TO 1'-0" FWD 40	SP-5	-	-	-	UPP DK	E	-						
					SP-10	-	-	-	MN DK	-	H_2	-	-	-	-		OVERHD & STANS BEL
					SP-5	-	-	-	MN DK	-	H_1	-	-	-	-		STANS BELOW
	2	101 GEN NOTE #5-U	CL	1'-0" AFT 10 TO STEM	SP-5	-	C	D	SHELL	-	-	SP-6	N	N	N	BEL MN DK	PEAK TANK
					SP-10	A	-	-	SHELL	-	-	SP-5	AF	G	AF	MN DK	MOORING STA
												SP-5	-	G	-	CABIN DK	ANCHOR HDLG STA
	3	206	P	1'-0" AFT 22 TO 1'-0" AFT 28	SP-5	-	-	D	UPP. DK	E	-	SP-5	-	M	M	MN DK	CHAIN LOCKER
												SP-5	AF	-	AF	MN DK	MOORING STA
					SP-10	-	-	-	AFTBHD28	-	H_2	SP-6	R_2	Z	R_2	CABIN DK	ANCHOR WINDLASS & HYDRAULIC MACHY. RM.
					SP-5	-	-	-	AFTBHD28	-	H_1	SP-5	I	G	I		STORES LOADG AREA
					SP-5	-	-	-		G	I	SP-6	-	AE	AE		REFRIG. SPACES
												SP-6	Z	Z	W		FAN RM
												SP-6	-	LATEX MASTIC	W		CREW W.C.
												SP-6	X	↓	X	↓	GARBAGE RM
	4	207	S	1'-0" AFT 22 TO 1'-0" AFT 28	SP-5	-	-	D	UPP.DK	E	-	SP-5	-	M	M	MN DK	CHAIN LOCKER
												SP-5	AF	-	AF	MN DK	MOORING STA
					SP-10	-	-	-	AFTBHD28	-	H_2	SP-6	W	Z	W	CABIN DK	BOSN STORES
					SP-5	-	-	-	AFTBHD28		H_1	SP-5	I	G	I		STORES LOADG AREA
					SP-5	-	-	-		G	I	SP-6	-	AE	AE		REFRIG SPACEW
												SP-5	-	LATEX MASTIC	Y		OFFICER W.C.
												SP-5	Y	—	Y		SOILED&CLEAN LINEN
												SP-6	-	Z	-	↓	↓ ↓ ↓
	5																

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REV.	LINE NO.	MODULE NO.	P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	1	216	P	1'-0" AFT 28 TO 1'-0" AFT 34	SP-5	-	-	D	SHELL	-	-	SP-6	W	-	W	MN DK	TRANS MAINT SHOP
					SP-5	-	-	-	AFTBHD34	-	H_1	SP-6	W	-	W	MN DK	FAN RM
					SP-10	-	-	-	AFTBHD34	-	H_2	SP-6	W	Z	W	CABIN DK	DUCT & WIRING SPC
					SP-5	-	-	-	UPP. DK	E	-	SP-5	Y	DK TILE REF #12	Y	CABIN DK	LIVING SPCS
												SP-5	-	LATEX REF #12	Y	CABIN DK	GALLEY & PANTRIES
												SP-6	X	↓	X	CABIN DK	GARBAGE ROOM
	2	217	S	1'-0" AFT 28 TO 1'-0"AFT 34	SP-5	-	-	D	SHELL	-	-	SP-6	W	-	W	MN DK	TRANS MAINT SHOP
					SP-5	-	-	-	AFTBHD34	-	H_1	SP-6	W	-	W	MN DK	FAN RM
					SP-10	-	-	-	AFTBHD34	-	H_2	SP-6	W	Z	W	CABIN DK	DUCT & WIRING SPC
					SP-5	-	-	-	UPP DK	E	-	SP-5	Y	DK TILE REF #12	Y	CABIN DK	LIVING SPCS
												SP-5	-	LATEX REF #12	Y	CABIN DK	GALLEY & PANTRIES
	3	315	CL	1'-0" FWD 40 TO 1'-0" FWD 46	SP-5	-	-	-	MN DK	G	-						
					SP-10	-	-	-	BEL MN DK	-	H_2						
					SP-5	-	-	-	STANS	-	H_1						
	4	318	CL	1'-0" FWD 40 TO 1'-0" AFT 46	SP-5	-	-	-	UPP DK	E	-						
					SP-10	-	-	-	BELUPPDK	-	H_2						
					SP-5	-	-	-	STANS	-	H_1						
	5	204	P	1'-0" AFT 22 TO 1'-0" AFT 28	SP-5	-	-	-	MN DK	G	-	SP-6	N	N	N	UNDERSUMP	COFFERDAM
					SP-5	-	C	D	SHELL	-	-	SP-6	W	-	W	LWR DK	ENGRS STORES&UNASSIGN
												SP-5	-	M	M		CHAIN LKR & SUMP
												SP-6	W	Z	W	TWEEN DK	BOW THRUST CONT RM
												SP-6	W	Z	W	TWEEN DK	STOREROOMS
												SP-5	AF	G	-	MN DK	MOORING STA

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS. | LYKES - MODULE PAINTING SCHEDULE | PLAN NO. 30261-01X1 | SECT. G | REV C | SHEET 16

GENERAL DYNAMICS, QUINCY DEC., 1973 6X
MA NO.241-519-1-1 GD NO.30261-01X1 FRAME ① 2 3 4
Sheets 101-103 of 103

101

(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	1	316			SP-5	-	C	-	SHELL	-	-	SP-6	N	-	N	FWDBHD40	BALLAST TK #2
					SP-5	-	-	D	SHELL	-	-	SP-5	M	-	M	AFTBHD40	BALLAST TK #3
				1'-0" FWD	SP-10	-	-	-	STL WINGWALL	-	H_2	SP-5	Y	DK TILE	Y	CABIN & MAIN DKS	PASS
			P	40 TO	SP-5	-	-	-	↓	-	H_1	SP-5	Y	DKCOVER	Y		CREW LAUNDRY
				1'-0" FWD	SP-5	-	-	-	UPP. DK	E	-	SP-6	W	Z	W	↓	FAN RMS
				46								SP-5	Y	DK TILE	Y	CABIN DK	STATERM AREAS
	2																
	3	317			SP-5	-	C	-	SHELL	-	-	SP-6	N	-	N	FWDBHD40	BALLAST TK #2
					SP-5	-	-	D	SHELL	-	-	SP-5	M	-	M	AFTBHD40	BALLAST TK #3
				1'-0" FWD	SP-10	-	-	-	STL WINGWALL	-	H_2	SP-5	Y	DKTILE	Y	CABIN & MAIN DKS	PASS.
			S	40 TO	SP-5	-	-	-	↓	-	H_1	SP-6	W	Z	W		FAN RMS
				1'-0" FWD	SP-5	-	-	-	UPP. DK	E	-	SP-6	W	Z	W	↓ ↓	LOCKER
				46								SP-5	Y	DKTILE	Y	CABIN DK	STATERM AREAS
	4																
	5																

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS.	LYKES - MODULE PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. G	REV C	SHEET 18

102

(SEE GENERAL NOTE 3-C)

REV.	LINE NO.	MODULE NO.	LOCATION		EXTERIOR/WEA. EXPOSED - SURFACE SCHEME							INTERIOR - SURFACE SCHEME					
			P/S	FRAME	SURFACE PREP	BELOW BOOT TOPPING	BOOT TOPPING	ABOVE BOOT TOPPING		DECK FLATS	BHDS & OVERHD	SURFACE PREP	SHELL PLTG.	DECK FLATS	BHDS & OVERHD		COMPT. TYPE
	1	109 GEN NOTE 5-U	CL	FOREMAST 21-22	SP-5	-	-	F	OUTSIDE	-	-	SP-6	-	-	AC	INTERIOR	FORE MAST
	2																
	3																
	4																
	5																

GENERAL DYNAMICS QUINCY DIVISION, QUINCY, MASS.	LYKES - MODULE PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT. G	REV C	SHEET 19

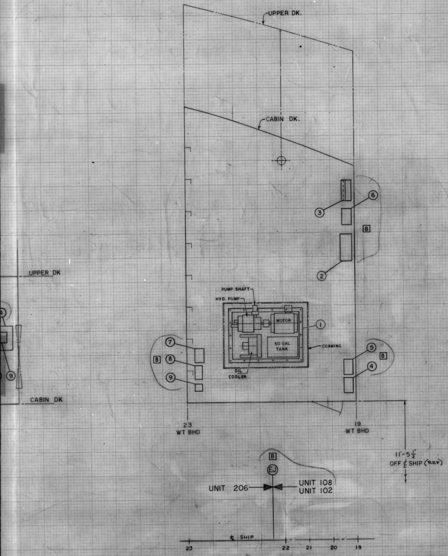
(SEE GENERAL NOTE 3-C) MODULE PAINTING PLAN NO. 30261-01X1 (63) 103

REV.	LINE NO	MODULE NO	LOCATION		EXTERIOR SCHEME					INTERIOR SCHEME				
			P/S	FRAME	SURFACE PREP			HOUSE SIDES	DECK (WEA)	SURFACE PREP	HOUSE SIDES	DECK FLATS	BHDS & OVERHEAD	COMPT TYPE
	1	322	P	LOWER DECK HOUSE FR 38-44	SP-5	—	—	F	—	SP-6	W	Z	W	STOREROOMS & LOCKERS
											Y	DK TILE REF #12	Z	STATEROOMS & PASSAGE
	2	323	S	LOWER DECK HOUSE FR 38-44	SP-5	—	—	F	—	SP-6	W	Z	W	STOREROOMS & LOCKERS
											Y	DK TILE REF #12	Y	STATEROOMS, OFFICE & PASSAGE
	3	324	P/S	DECK HOUSE UNIT FR 36-44	SP-5	—	—	—	E	—	—	—	—	EXPOSED DKS
						—	—	F	—	SP-6	Y	DK TILE REF #12	Y	STATERMS, DRESSG RM, LOUNGE, OFF, MASTER GYRO &
	4													TRANS RM, PASS & RADIO RM
	5				SP-5	—	—	F	—	SP-6	Y	Z	Y	FAN RMS SPARES PARTS LKR, LINEN LKR MED LKR.
						—	—	F	—	SP-6	Y	LATEX MASTIC REF #12	Y	WHEELHSE, CHART RM SERVICE LKR
	6				SP-5	—	—	F	—	SP-6	W	LATEX MASTIC	W	CREW W.C.
						—	—	F	—	SP-6	Y	Z	W	BOSN LKR FLAG LKR
	7	↓	↓	↓	—	—	—	—	—	SP-6	X / Y	Z	X	BATTERY LKR
A	8	628	P	STACK FR 72-76	SP-5	—	—	F	—	SP-5	—	—	I	STACK INTERIOR
										SP-6	—	—	AB	OUTSIDE OF INNER STACK
A	9	629	S	STACK FR 72-76	SP-5	—	—	F	—	SP-5	—	—	I	STACK INTERIOR
										SP-6	—	—	AB	OUTSIDE OF INNER STACK
	10													

GENERAL DYNAMICS QUINCY DIV., QUINCY, MASS.	LYKES PAINTING SCHEDULE	PLAN NO. 30261-01X1	SECT G	REV C	SHT. 20

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-526-01-01 GD NO. 30213-95x01 FRAME ① 2 3 4

8	7	6	5	4	3	2	1



REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
6C 9C	A	PLAN APPROVED BY J.J. HENRY LTR NO. 5589/S26/WSH/M-725-70 DATED JULY 20, 1970. PLAN REVISED AS FOLLOWS: PC. NO. 2 RELOCATED OUTBD TO CLEAR VENT'L. INDICATED COAMING AROUND PWR UNIT, PC. NO. 1.	7/24/70 JEG	WJ	NOT	REQD	30 JUL 1970	WCH
	B	CORRECTIVE ACTION DESIGN: ADDED: PC.4 THRU 9. REVISED: LOCATION PC.2 & 3. RELOCATED: ERECTION JOINT.	W.J.C. 2/14/71 JEG	J.Sengha WJ	NOT	REQD	19 FEB 1971	WCH

REVISIONS	O	A	B	C
TO	7/3/0	7/31/0	2/22/1	
LYKES H.	1	1w	1w	
M.A.(WASH)			1w	
M.A.(YARD)	1	1w	1w	
J.J.HENRY(YARD)	1	1w	1w	
J.J.HENRY(HOME)	3	1w	1w	
ABS				
USCG/NOO	3	1w	1w	
USPHS				
866 TPS		1w	1w	
LIAISON		1w	1w	
J SINCLAIR 872		1w	1w	
MATL 872		1w	1w	
J AUIR 871		1w	1w	
872	1	2w	1w	
873				
RG 87 FSR		1w	1w	
875				
876		1w	1w	
MAC 855		1w	1w	
922			1w	
TOTAL NRO'S FS	10	15	16	
TOTAL NRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	8-21-0	800	4	
	B	2-25-1	820		
			826	12	
			829		
			830	3	
			841		
			842		
			843	1	
			844	5	
			899		
			LIBRARY	5	
			DRUCKER 814	1	
			LAURIER 812	1	
			TOTAL	32	

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G
	APPROVAL NOT REQUIRED						

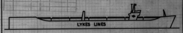
GENERAL NOTES

1. FOR LIST OF COMPONENTS SEE SECTION X REF. 1.

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
B 11-8-73

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
1	LIST OF COMP. MACHY. ARR. RMS.	30213-30X1	241-S40-0141

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO. 30213-95X01

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR T. Hurley
SUPV JEG J. Sengha
ENGR NOT REQ'D

ARR. ANCHOR WINDLASS
HYDRAULIC MACH. ROOM

APPROVED DATE 7/31/0
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S26-01-01	B

SCALE: 1/2" = 1'-0" SHEET 1 OF 1

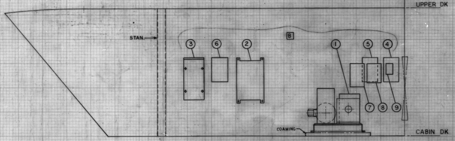
APPROVAL LTR DATED
ABS NOT REQ'D
USCG
USPHS NOT REQ'D

AREA = 19 SQ FT

TYPE I/YARD

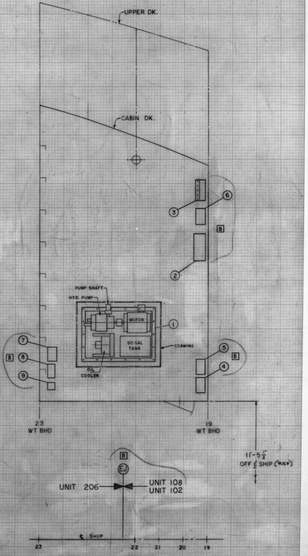
W.A. DWG NO. 241-S26-01-01
DWG. NO. 30213-95X01
Q div DWG NO. 30213-95X01

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-526-01-01 GD NO. 30213-95x01 FRAME 1 ② 3 4



UPPER DK
STAN.
B
③
⑥
②
①
⑤
④
⑦
⑧
⑨
COAMING
CABIN DK

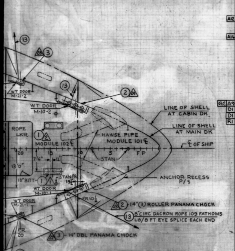
ELEV. FR23 LKG FWD



UPPER DK.
CABIN DK.
③
⑥
B
②
PUMP SHAFT
HYD. PUMP
MOTOR
①
50 GAL TANK
COAMING
OIL COOLER
⑦
⑧
⑨
B
⑤
④
B
23 WT BHD
19 WT BHD
11'-5½" OFF ℄ SHIP (REF)
B
EJ
UNIT 206
UNIT 108
UNIT 102
℄ SHIP
23
22
21
20
19

241-S26-01-01 B 2

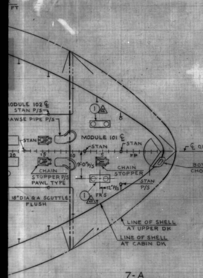
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S26-01-03 GD NO. 30615-08×1 FRAME ① 2 3 4



13
28
3
WT DOOR M-21-2
WT DOOR M-10-2
13
2
24
LINE OF SHELL AT CABIN DK
LINE OF SHELL AT MAIN DK
ROPE LKR
1
2
MODULE 102 ℄
HAWSE PIPE
MODULE 101 ℄
℄ OF SHIP
20
15
10
5
FP
STAN
7'-6"
12"
13'-0"
18" BITT
1
STAN P/S
19½"
WT DOOR M-10-1
WT DOOR M-21-1
ANCHOR RECESS P/S
FR 10½
23
2
14" (3) ROLLER PANAMA CHOCK
13
8" CIRC DACRON ROPE 109 FATHOMS LG/8 FT EYE SPLICE EACH END
FR 20
27
3
14" DBL PANAMA CHOCK
13
CHOCK

7-E A 2,4,6,7,13,14 C-1,2,3,4,5 D1,3 E1,2

PLAN VIEW-MAIN DECK
STBD SIDE SHOWN
PORT SIDE SIM EXCEPT AS NOTED
1/8" = 1'-0"



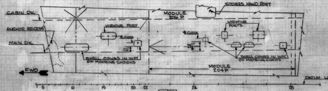
MODULE 102 ℄
STAN P/S
HAWSE PIPE P/S
STAN
MODULE 101 ℄
STAN
STAN
1
22
℄ OF SHIP
20
15
10
5
FP
9'-0" P/S
CHAIN STOPPER P/S PAWL TYPE
CHAIN STOPPER
BOW CHOCK
12" P/S
STAN P/S
FR 5
1
21
18" DIA Q A SCUTTLE FLUSH
LINE OF SHELL AT UPPER DK
LINE OF SHELL AT CABIN DK

7-A
PLAN VIEW CABIN DECK
1/8" = 1'-0"

LIST OF MATERIAL QUANTITIES FOR ONE

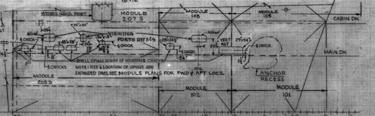
EXCEPT AS OTHERWISE NOTED SPECIFICATIONS ARE THOSE IN EFFECT ON MAY 26 1968

	PIECE NO.	QUANTITY INSTL		OBRP	MATL OR VDRS DWG	VENDOR CODE	SPEC	REMARKS	NAME	PATT NO.	SOURCE
	1	22							18" BITT		ORD ON APPLICABLE MODULE PLANS
A12	2	4							14" (3) ROLLER PANAMA CHOCK		↓
	3	6							14" DBL PANAMA CHOCK		
	4	2							14" CLOSED CHOCK		
A16	5	12							UNIVERSAL CHOCK		
	6	4							14" SGL PANAMA CHOCK		
	7	22							20" ROLLER FAIRLEADER		
	8	4							14" (2) ROLLER CHOCK		
	9	16			CAST STL		ASTM A27-65 GR 60-30		8" RECESSED TOWING BITT		U321-305-001
	10	10							MOORING WINCH		ORD ON APPLICABLE MODULE PLANS
	11	14			CAST STEEL GALV			9-C, 19-E, 20-D	18" CLEAT	50H53-09-18	W304-300-003
	12	10			IPS GALV		COML	6FT EYE SPLICE ONE END	1⅛" DIA W.R 6×37 IWRC IPS GALV LG=600FT		ORD ON REF #3 INDEX # 2
	13	6			POLYETHLENE DACRON		COML	8FT EYESPLICE IN EACH END	8" CIRC HAWSER LG=109 FATHOMS		↓ 4 ↓ 6
	14	6			NYLON		COML		HEAVING LINE 1⅛" CIRC 20 FATHOMS LG/LEATHER COVERED WEIGHT ATTACHED		4 7
	15	2			STL		ABS	20-D	15.3# PL 20"×6"		9-20-05012
G2 A9	16	12			STL GALV		COML	SEE GEN NOTE #5	RAT GUARD 36" DIA		W601-300-001
D1	17	2			VAR				MOORING WINCH · MASTER SWITCH		REF 10 PC 302
D1	18	2			↓				↓		REF 11 PC 301
F.1	19	1							↓		REF 12 PC 20



STORES HAND PORT
CABIN DK
MODULE 206 P
ANCHOR RECESS
VIEWING PORT
VIEWING PORTS
℄ CHOCK
℄ CHOCK
MAIN DK
16"
23⅛"
SHELL OPNGS IN WAY OF MOORING CHOCKS
SHELL OPNGS IN WAY OF MOORING CHOCKS
FWD
MODULE 204P
DATUM LINE
5
10
15
20
22
24
28

5-D B1 D3
PROFILE FWD
PORT SIDE
FOR DETS & DIM. NOT SHOWN SEE 5-B
1/8" = 12"



STORES HAND. PORT
MODULE 207 S
MODULE 108
MODULE 105
CABIN DK
FR 27
35"
63" VERT HGT ABV DK. TYP EXCEPT AS NOTED
36"×48"
24"×30"
℄ CHOCK
48"×28"
26"×15"
VIEWING PORTS REF 8 & 9
28"×24½"
30"×60"
VERT HGT
29"×94"
℄ CHOCK
℄ CHOCK
℄ CHOCK
28"×24½"
8"
5"
34⅜"
24"
58⅛"
4"
24"
2½"
MAIN DK
SHELL OPNGS IN WAY OF MOORING CHOCKS
℄ CHOCKS
NOTE: SIZE & LOCATION OF OPNGS ARE EXPANDED DIMS. SEE MODULE PLANS FOR FWD & AFT LOCS.
FR 16
ANCHOR RECESS
MODULE 205 S
MODULE 102
MODULE 101
31'-0" WL
28
24
22
20
15
10
5
FP
E
J

5-B A5 B1 D3,4
PROFILE FWD
STBD. SIDE
FOR PORT SIDE SEE 5-D
1/8" = 12"

LAST FDN # USED
106

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
		PLAN APPROVED BY J.J. HENRY LTR, FILE: 5589/S26/AHS-202-70, DTD 5 MAY 1970. REL WDeS	6/2/70				1 JUN 70	
20 D', E'	A	1. SNIPES INDICATED IN 20-D.						
9H'		2. PC NO. 13 INDICATED IN 7-E, MOD 903P.						
1A', 1C		3. PLAN TITLE REVISED.						
16E', H'		4. INDICATION OF MOORING WINCH MASTER CONTROL FDNS ADDED IN MOD 906P & 907S. 7-E REV & REF 7 ADDED.						
5C', 6C'		5. 5-B: SIZE & LOC OF MOORING & VIEWING PORTS ADDED. REF 8 & 9 ADDED. THIS ITEM RELEASES ANDC # S0217 & RES #1.						
		6. 7-E: 18" BITTS (PC 1) RELOC IN MOD 102 ℄, 416P, 417S, 905S & 906P.						
		7. 7-E: FOUNDATION NO. ADDED FOR PC 7 IN MOD 416P. (CONT IN PANEL 3)						
		7. GEN NOTE #6 ADDED.						
17B'	A (CONT'D)	8. 10-A: RECESSED TOWING BITT RELOC FROM MOD 902P & 905S. TO 904P & 905S (WAS 24¼" AFT FR109). FDN NOS FOR PC 9 DELETED.						
10C'		9. FDN NOS ADDED FOR PC 11 AT FR 27 IN 9-C.						
		10. RAT GUARDS (PC 16) ADDED TO L/M & GEN NOTE #5 ADDED TO SUIT.						
21B'		11. 21-A ADDED FOR CLARIFICATION.						
3C'		12. RES #3 ADDED.						
7E		13. 7-E: 14" CLOSED CHOCK & DBL PANAMA CLOSED CHOCK RELOC. THIS ITEM RELEASES ANDC # S-0216 & RES #2.						
		14. 7-E: FDN Nº ADDED FOR PC 7 IN MOD 416P.						
19-B		15. 19-B: CHOCK MOVED OUTBD & HALF-ROUND RELOCATED						
		16. RES #4 ADDED.						
		17. 7-E: LAD. RUNGS INDIC IN MOD 912P & 913S. SOURCE: ITEM 1 & 2 · J.J. HENRY APP'L LTR DTD 5 MAY 1970 ITEM 3-16 · DES DEV ITEM 17 · CC #39						
5B' 5D'	B	1. SHELL OPNGS FOR CHOCKS BET. FR 19-25 REV & RELOC TO SUIT DEVELOPMENT OF FDNS ON MODULE PLANS. 5-B REV & 5-D ADDED. THIS RELEASES ANDC S-0305. SOURCE: DES DEV (SAB TES)	7/16/70	F.d.R.			16 JUL 1970	
	C	1. 7-E: LOCATING DIM. REV FOR FDNS 5-8, 31, 32, 61-66, 69-72, 80, 81, 99 & 101. (MJD CMON)	9/9/70	F.d.R.			9 SEP 1970	
		2. 7-E: INDICATION OF WT DOORS IN MOORING ENCL REV TO SUIT MODULE PLANS.						
		3. 7-E: LEAD OF MOORING LINES REV.						
		4. RES #3 RELEASED. 7-E REV TO SUIT.						
		5. RES #4 RELEASED. 7-E, 19-B & 21-A REV TO SUIT.						
		6. 19-F REV TO SUIT MODULE PLANS.						
		7. 20-D: NOTE ADDED TO GRIND SHELL IN WAY OF CLEAT. SOURCE: ITEMS 1-6: DES DEV 2: IRM # S-07-0194 REQ						
3B, 6G, 9E 13D, 13H	D	1. WINCH CONTROL FDNS # 103, 104 & 105 ADDED IN MODULES 707, 706 & 205, RESP. REF 10 & 11 & L/M PC 17 & 18 ADDED TO SUIT. (RMC MMG)	2/5/71	F.K.			9 FEB 1971	
3C		2. GEN NOTE #7 ADDED. (REV CONT'D PNL 23)						

REVISIONS	O	A	B	C	D	E	F	G			
TO		6/2/0	7/16/0	9/17/0	2/16/1	4/14/1	9/17/1	12/9/1			
LYKES				1	1	1	1	1			
M.A.(WASH)				1	1	1	1	1			
M.A.(YARD)		1	1	1	1	1	1	1			
J.J.HENRY(YARD)		1	1	1	1	1	1	1			
J.J.HENRY(HOME)				1	1	1	2	2			
ABS Y/D		1	1	1	1	1	1	1			
USCG Y/D		1	1	1	1	1	1	1			
USPHS				1	—	—					
871		7	7	6	5	8	5	4			
872		4	4	3	2	2	—				
873											
874		1	1	—							
875											
876		2	2	2	1	—	—				
TPS 866		1	1	1				1			
899 MOB		1	1								
LIA 868				2	1	1	1	1			
TOTAL NRO'S FS											
TOTAL NRO'S HS		20	20	23	16	18	14	14			
TOTAL RO											

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	6-8-0	800		4
			820		5
30212	B	7-17-0	826		12
〃	C	9-8	829		
〃	D E	2-18-1 4-17-1	830		7
	F G	9-20-1 12-9-1	841		
			842		
			843		1
			844		5
			899		
			LIBRARY		5
			828		1
			885		1
			812		2
			812		1
			881		2
			TOTAL		44

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G							

GENERAL NOTES

1. FOR STRUCTURAL DETAILS AND ADDITIONAL GENERAL NOTES SEE REFERENCE #1.
2. FOR WELDING DETAILS AND ADDITIONAL GENERAL NOTES SEE REFERENCE #2.
3. ALL FOUNDATIONS AND FITTINGS FOR MOORING EQUIPMENT SHALL BE TACKWELDED AND CHECKED BY OWNER'S REPRESENTATIVE BEFORE BEING PERMANENTLY WELDED IN PLACE.
4. FOUNDATION NO. LISTED ON MODULE PLANS ARE INDICATED ON THIS PLAN BY THIS SYMBOL: △. FOR DET OF FDN SHOWN ON THIS PLAN SEE DET PLAN NO. CORRESPONDING TO MODULE NO. AS FOLLOWS: 30 (MODULE NO.) × 120. EXAMPLE: FDN △30, MODULE 102, WILL BE SHOWN ON PLAN 30102×120.

A10 5. RAT GUARDS TO BE STOWED IN BOS'N STOREROOM.
A7 6. HAWSERS TO BE STOWED IN ROPE LOCKERS.
D2 7. FOR INSTALL. OF PC 9 (8" RECESSED TOWING BITT) SEE STRUCT MODULE PLANS.

RESERVATIONS

A5 ~~1. LOCATION, SIZE & QTY OF VIEWING & MOORING PORTS FWD OF FR 28 PENDING DEVELOPMENT. (ANDC S-0217)~~

A13 ~~2. LOCATION OF 14" SGL & DBL PANAMA CHOCKS PENDING INFO FROM VENDOR (ANDC S-0216).~~

C-4 A12 3. ~~LOCATION OF 14" (3) ROLLER PANAMA CHOCK PENDING INFO FROM VENDOR.~~

C-5 A16 ~~4. CONFIGURATION OF UNIVERSAL CHOCK PENDING INVESTIGATION OF MOORING LINE LEADS.~~

(REFERENCES CONT IN PANEL 23)

	NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
F.1	12	DETAILS-EE MOUNTED ON THE OVHD	30416-603	
D1	11	PWR SYS-MN DK FR40 - FWD	30734-51×1	241-S62-02-31
D1	10	PWR SYS-MN DK FR70 - 94	30734-51×3	241-S62-02-33
A5	9	↑ ↑ ↑ ↑ 30"×48"	M-WK-699-11	
A5	8	MOORING PORTS INBD SWINGING 24"×30" & 30"×60"	M-WK-699-10	
A4	7	PWR SYS MN & LWR DK FR94-AFT WDP	30734-51×4	241-S62-02-34
	6	↑ ↑ ↑ ↑ ↑	30207×120	
	5	RIGGING & OUTBD FTG INCLUDING FDNS	30206×120	
	4	FIBRE ROPE LIST	30619-01×2	241-S25-01-02
	3	WIRE ROPE LIST	30619-01×1	241-S25-01-01
	2	STANDARD WELDING DETAILS	30313-01×2	241-S29-06-01
	1	STANDARD STRUCT DETAILS	30313-01×1	241-S11-17-01

REFERENCES

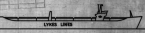
REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC
A	39	LATER	241, 242 & 243
O	7	3	241, 242 & 243
O	31	LATER	241, 242 & 243

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
G 12-21-71

SEABEE



LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30615-08×1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN C. McNEIL
DSGNR W. DeSANTIS
SUPV
ENGR ------

MOORING & WARPING ARR

APPROVED DATE 3-20-70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S26-01-03	G

SCALE: AS NOTED SHEET 1 OF 1

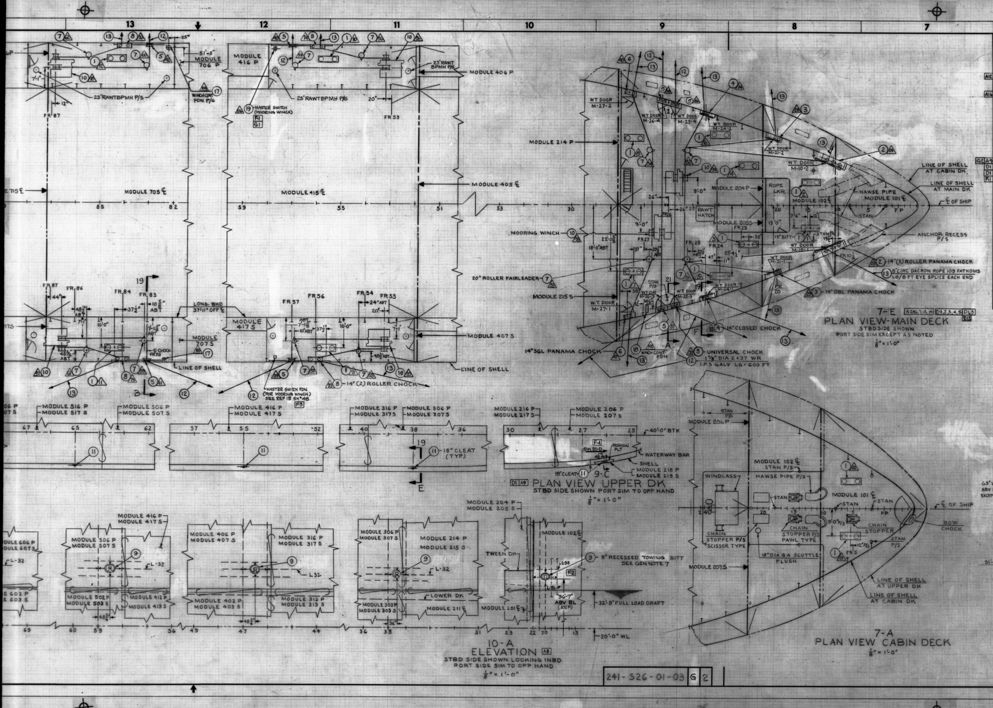
APPROVAL LTR DATED
ABS ------
USCG ------
USPHS ------

AREA = 28 SQ FT

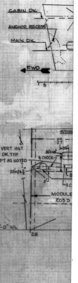
DWG. NO. 30615-08×1

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-526-01-03 GD NO. 30615-08x1 FRAME 1 ② 3 4

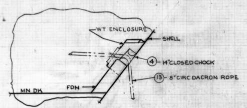

13
12
11
10
9
8
7
MODULE 706 P
MODULE 416 P
MODULE 406 P
23" RAWT BPMH P/S
WINCH CONT FDN P/S
MASTER SWITCH (MOORING WINCH)
FR 87
FR 53
MODULE 705 ℄
MODULE 415 ℄
MODULE 405 ℄
MODULE 214 P
MODULE 417 S
MODULE 707 S
MODULE 407 S
LONG. BHD 37'-11" OFF ℄
LINE OF SHELL
MASTER SWITCH FDN (FOR MOORING WINCH) SEE REF 15 SH #4B
14" (2) ROLLER CHOCK
MOORING WINCH
20" ROLLER FAIRLEADER
MODULE 215 S
14" SGL PANAMA CHOCK
WT DOOR M-27-2
WT DOOR M-26-4
WT DOOR M-25-4
WT DOOR M-24-2
WT DOOR M-21-2
WT DOOR M-10-2
WT DOOR M-10-1
WT DOOR M-21-1
WT DOOR M-24-1
WT DOOR M-26-3
WT DOOR M-25-3
W.T. DOOR M-27-1
MODULE 204 P
MODULE 205 S
ROPE LKR
RAWT HATCH
MODULE 102 ℄
HAWSE PIPE MODULE 101 ℄
STAN
FP
18" BITT
LINE OF SHELL AT CABIN DK
LINE OF SHELL AT MAIN DK
℄ OF SHIP
ANCHOR RECESS P/S
14" (3) ROLLER PANAMA CHOCK
8" CIRC DACRON ROPE 109 FATHOMS LG/8 FT EYE SPLICE EACH END
14" DBL PANAMA CHOCK
14" CLOSED CHOCK
UNIVERSAL CHOCK
1 1/8" DIA 6×37 WR I.P.S GALV LG = 600 FT
WINCH CONT FDN
7-E
PLAN VIEW - MAIN DECK
STBD SIDE SHOWN PORT SIDE SIM EXCEPT AS NOTED
1/8" = 1'-0"
MODULE 516 P
MODULE 517 S
MODULE 506 P
MODULE 507 S
MODULE 416 P
MODULE 417 S
MODULE 316 P
MODULE 317 S
MODULE 306 P
MODULE 307 S
MODULE 216 P
MODULE 217 S
MODULE 206 P
MODULE 207 S
18" CLEAT (TYP)
40'-0" BTK
FASHION PLT
WATERWAY BAR
SHELL
MODULE 218 P
MODULE 219 S
9-C
PLAN VIEW UPPER DK
STBD SIDE SHOWN PORT SIM TO OPP HAND
1/8" = 1'-0"
WINDLASS
HAWSE PIPE P/S
CHAIN STOPPER P/S SCISSOR TYPE
CHAIN STOPPER P/S PAWL TYPE
CHAIN STOPPER
18" DIA Q.A SCUTTLE FLUSH
MODULE 101 ℄
BOW CHOCK
LINE OF SHELL AT UPPER DK
LINE OF SHELL AT CABIN DK
7-A
PLAN VIEW CABIN DECK
1/8" = 1'-0"
MODULE 606 P
MODULE 607 S
MODULE 602 P
MODULE 603 S
MODULE 502 P
MODULE 503 S
MODULE 412 P
MODULE 413 S
MODULE 406 P
MODULE 407 S
MODULE 402 P
MODULE 403 S
MODULE 312 P
MODULE 313 S
MODULE 302 P
MODULE 303 S
MODULE 214 P
MODULE 215 S
LOWER DK
MODULE 211 ℄
MODULE 201 ℄
TWEEN DK
8" RECESSED TOWING BITT SEE GEN NOTE 7
36'-7" ABV BL (REF)
32'-8" FULL LOAD DRAFT
20'-0" WL
10-A
ELEVATION
STBD SIDE SHOWN LOOKING INBD PORT SIDE SIM TO OPP HAND
1/8" = 1'-0"
241-526-01-03 G 2

	PIECE NO.	QUANTITY INSTL		QUANTITY OBRP	MATL OR VDRS DWG
	1	22			
A12	2	4			
	3	6			
	4	2			
A16	5	12			
	6	4			
	7	22			
	8	4			
	9	16			CAST ST
	10	10			
	11	14			CAST STE GALV
	12	10			IPS GAL
	13	6			POLYETHLE DACRON
	14	6			NYLON
	15	2			STL
G2 A9	16	12			STL GAL
D1	17	2			VAR
D1	18	2			
F.1	19	1			


CABIN DK
ANCHOR RECESS
MAIN DK
FWD
63" VERT HGT ABV DK. TYP EXCEPT AS NOTED
CHOCK
31'-0" WL
MODULE 205 S

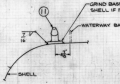
GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO. 241-526-01-03 GD NO. 30665-08x1 FRAME 1 2 ③ 4



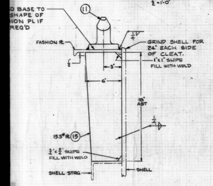
WT ENCLOSURE
SHELL
④ 14" CLOSED CHOCK
⑬ 8" CIRC DACRON ROPE
FDN
MN DK

19-F C-6 D3
1/2" = 1'-0"



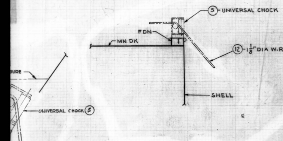
⑪
GRIND BASE TO SUIT SHELL IF REQ'D
WATERWAY BAR
SHELL

19-E
1 1/2" = 1'-0"



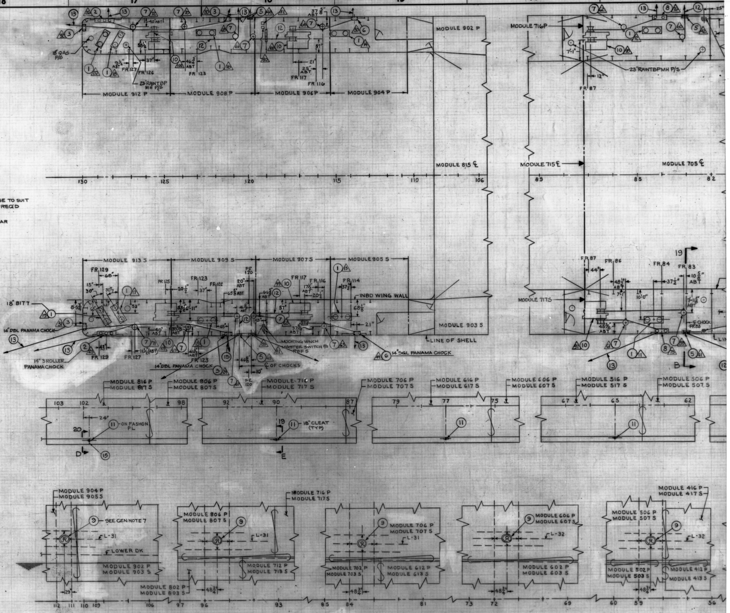
⑪
D BASE TO SHAPE OF ION PL IF REQ'D
FASHION PL
GRIND SHELL FOR 24" EACH SIDE OF CLEAT.
1"X1" SNIPE FILL WITH WELD
3"
6"
18" ABT
15.3# PL ⑮
3/4" x 3/4" SNIPE FILL WITH WELD
SHELL STRG
SHELL

20-D A1 C7
3" = 1'-0"



⑤ UNIVERSAL CHOCK
FDN
MN DK
⑫ 1 1/8" DIA W.R.
SHELL
SURE
UNIVERSAL CHOCK ⑤

19-B A12,15 C-5
1/2" = 1'-0"

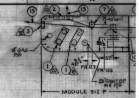


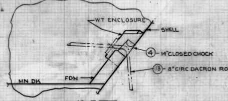
20
19
18
17
16
15
14
13
MODULE 902 P
MODULE 716P
16" GAS P/S
FR 127
FR 126
FR 123
FR 117
FR 116
23" RAWTBP MH P/S
FR 87
MODULE 912 P
MODULE 908 P
MODULE 906 P
MODULE 904 P
MODULE 815 ℄
MODULE 715 ℄
MODULE 705 ℄
130
125
120
115
110
106
89
85
82
MODULE 913 S
MODULE 909 S
MODULE 907 S
MODULE 905 S
FR 129
FR 125
FR 122
FR 114
FR 86
FR 84
FR 83
18" BITT
14" DBL PANAMA CHOCK
INBD WING WALL
MODULE 903 S
MODULE 717S
LINE OF SHELL
14" 3 ROLLER PANAMA CHOCK
14" DBL PANAMA CHOCK
MOORING WINCH MASTER SWITCH P/S REF 5
℄ OF CHOCKS
14" SGL PANAMA CHOCK
FR 129
FR 127
FR 123
B
MODULE 816 P
MODULE 817 S
MODULE 806 P
MODULE 807 S
MODULE 716 P
MODULE 717 S
MODULE 706 P
MODULE 707 S
MODULE 616 P
MODULE 617 S
MODULE 606 P
MODULE 607 S
MODULE 516 P
MODULE 517 S
MODULE 506 P
MODULE 507 S
103
102
98
92
90
87
79
77
75
67
65
62
⑪ ON FASHION PL
⑪ 18" CLEAT (TYP)
24"
D
E
MODULE 904 P
MODULE 905 S
MODULE 716 P
MODULE 717 S
MODULE 416 P
MODULE 417 S
⑨ SEE GEN NOTE 7
L-31
LOWER DK
MODULE 806 P
MODULE 807 S
MODULE 706 P
MODULE 707 S
MODULE 606 P
MODULE 607 S
MODULE 506 P
MODULE 507 S
L-32
MODULE 902 P
MODULE 903 S
MODULE 802 P
MODULE 803 S
MODULE 712 P
MODULE 713 S
MODULE 702 P
MODULE 703 S
MODULE 612 P
MODULE 613 S
MODULE 602 P
MODULE 603 S
MODULE 502 P
MODULE 503 S
MODULE 412 P
MODULE 413 S
48 3/4"
112
111
110
109
106
97
96
93
85
84
81
73
72
69
60
59
56

241-S26-01-03 | G | 3

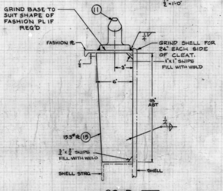
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-526-01-03 GD NO. 30615-08×1 FRAME 1 2 3 ④

REVISIONS (CONT)			Q DIV		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APP'D	DATE	APP'D	DATE	APP'D
5B', 5D' 7E', 19F' 5B'	D (CONT)	3. CHOCKS & W.T. ENCL. FWD OF FR 25, P&S, MN DK, REV. & RELOC. 5-B, 5-D, 7-E & 19-F REV. TO SUIT. 4. NOTE IN 5-B ON SHELL OPENINGS REVISED TO REFER TO MODULE PLANS FOR FWD & AFT LOCS. SOURCE: ITEM 1&2; DES. DEV. ITEM 3; REV "D" ON 30102 X120, 30206 X120 & 30207 X 120. ITEM 4; RELEASES AND C S-0570						
	E	1. 7-E: MOORING WINCHES FDN # 100 & 99, IN UNITS 906 & 907, RESP, RELOCATED (EA WAS 56" OUTBD OF LONG. BHD 41'-0" OFF ℄). TES 2. 7-E: MOORING WINCHES FDN # 102 & 101, IN UNITS 912 & 913, RESP, RELOCATED (EA WAS 55" OUTBD OF LONG. BHD 41'-0" OFF ℄). SOURCE: AEA S-0413	4/12/71				16 APR 1971	
	F	1. 7-E: MASTER SWITCH (PC 19) FDN NO. 106 ADDED FOR MOORING WINCH #4 IN UNIT 416 (P). REF 12 & 13 ADDED TO SUIT. A.F. 2. 10-A: RECESSED TOWING BITT (PC9) IN MODULE 102 RELOC. (WAS LOC 37'-3" ABV B.L. AT FR 21) REF 14 ADDED TO SUIT. 3. 7-E: MASTER SWITCH FDN ADDED FOR MOORING WINCH #3 IN UNIT 417 (S). REF 15 ADDED TO SUIT. 4. 9-C: 18" CLEAT (PC 11) RELOC FROM MODULE 206 (P) & 207 (S) TO MODULE 218 (P) & 219 (S) ON FASHION PL 4½" AFT OF FR 26. FDN NO. 78 (P) & 79 (S) DELETED TO SUIT. SOURCE: ITEM #1 REF 13 REV "E" (AEA S-0608-LYKES) ITEM #2 REF 14 REV "C-1" ITEM #3 REF 15 REV "K" ITEM #4 AEA S-0692-LYKES	9/14/71				16 SEP 1971	
12G' 7G'	G	1. 7-E: MASTER SWITCH (PC 19, FDN 106) RELOC. IN UNIT 416 (P). MG 2. IN L/M, PC 16, DELETED REF TO CAT. FIG. SOURCE: ITEM 1, REF 13, REV "F" (AEA S-0793-LYKES) ITEM 2, PLAN ERROR.	11/29/71				8 DEC 1971	

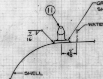

13
2
26
13
7
7C
3
32
18" QAS P/S
40" ABT
58½"
1
20
1
18
9½" ABT
FR 127
FR 126
37"
23" RAINT BP MH P/S
MODULE 912 P


WT ENCLOSURE
SHELL
4 — 14" CLOSED CHOCK
13 — 8" CIRC DACRON ROPE
MN DK
FDN

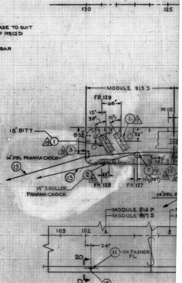
19-F C-6 D3
½" = 1'-0"

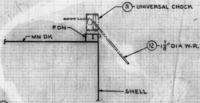

GRIND BASE TO SUIT SHAPE OF FASHION PL IF REQ'D
11
FASHION PL
¼
GRIND SHELL FOR 24" EACH SIDE OF CLEAT.
1"x1" SNIPE FILL WITH WELD
3"
6"
½
18" ABT
¼
15.3# PL 15
¾"x¾" SNIPE FILL WITH WELD
SHELL STRG
SHELL

20-D A1 C7
3" = 1'-0"

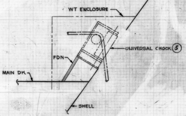

11
GRIND BASE TO SUIT SHELL IF REQ'D
WATERWAY BAR
7/16
7/16
SHELL

19-E
1½" = 1'-0"

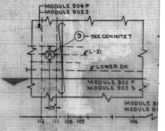

130
125
MODULE 913 S
FR 129
68"
15"
30°
30°
FR 125
1
17
18" BITT
19
1
8'-5¾"
53"
31
3
14" DBL PANAMA CHOCK
13
13
40" ABT
2
25
42"
FR 129
7
71
10
101
11½" (ABT)
FR 127
14" 3 ROLLER PANAMA CHOCK
14" DBL
MODULE 816 P
MODULE 817 S
103
102
24"
11 — ON FASHON PL
20
D
15


5 — UNIVERSAL CHOCK
FDN
MN DK
12 — 1⅛" DIA W.R.
SHELL

19-B A11.15 C-5
½" = 1'-0"


WT ENCLOSURE
UNIVERSAL CHOCK 5
FDN
MAIN DK
SHELL

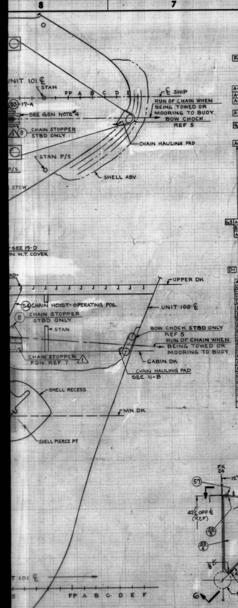
21-A A11.12 C-5
1" = 1'-0"


MODULE 904 P
MODULE 905 S
9 — SEE GEN NOTE 7
℄ L-31
℄ LOWER DK
MODULE 902 P
MODULE 903 S
29"
MODULE 8
MODULE 8
112
111
110
109
106

F-3	15	FDN-MISC % MACHY SPACES BOOKLET	30413-01 x 2	241-511-13-03
F-2	14	BOW FRAMING BEL MN DK FWD FR 22	30323-01 x 3	241-511-18-48
F-1	13	RIGGING & OUTBD FITTINGS INCLUDING FDNS	30416 X 120	
	NO.	TITLE	Q div DWG NO.	M.A. DWG NO.

REFERENCES (CONT)

241-S26-01-03



LIST OF MATERIAL

QUANTITIES FOR ONE SHIP

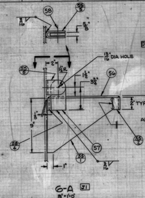
EXCEPT AS OTHERWISE NOTED SPECIFICATIONS ARE THOSE IN EFFECT ON MAY 26 1968

	PIECE NO.	QUANTITY INSTL		OBRP	MATL OR VDRS DWG	VENDOR CODE	SPEC	REMARKS	NAME	PATT NO.	SOURCE	LAST NO. USED
	1	3			G-12152-F	83644	ABS	INCL 1 SPARE (SEE 20-B)	18,480 LB BALDT STOCKLESS ANCHOR		S1127-300-001	
	2	22			G-12153-F	83644	ABS		3 1/16" HS (GR 3) STUD LINK CHAIN 15 FM SHOT		003	
F3	3	30		6	G-12153-F	83644	ABS		DETACHABLE CHAIN JOINING LINK		2 PCS. M1102-300-001	
	4	2		2	G-12153-F	83644	ABS		DETACHABLE ANCHOR JOINING LINK		↓	
	5	2			G-12153-F	83644	ABS		15 FM SWIVEL SHOT		↓	
	6	2			G-12153-F	83644	ABS		SWIVEL		↓	
	7	2			G-12153-F	83644	ABS		END LINK		↓	
A-9	8	3			G-12168-F	83644	ABS		3 1/16" CHAIN STOPPER (PAWL TYPE)		ORD ON REF 7 & 8	
A-9	9	2			86784	71491	ABS		CHAIN STOPPER SCISSOR TYPE		ORD ON REF #8	
A-9	10	1			86700	71491	ABS		HORIZ. WINDLASS		ORD ON REF 9	
	11	1			G-12168-F	83644	ABS		TOOL KIT (ANCHOR CHAIN)		S1127-300-006	
A-9	12	2			69006-CP	71491	ABS		CHAIN PIPE ASSY INCL COVER		ORD ON REF #9	
	13	1			STL		ABS	GEN NOTE #8	30.6# ⅊ 66"x156" (TO CUT 34 PCS)	ERS-120109	9-20-05024	19
G1	14	2			CRES		COML	CL 316	BOLT, HEX HD 3/4"-10UNC-2A LG=2"		9-60-00398	
	15	10			↓		↓	↓	BOLT, HEX HD 1"-8UNC-2A LG=3"		9-60-00418	
	16	10			NI-CU		MIL-N-25027B		NUT, HEX HD SELF LOCKING 1"-8UNC-3B		9-60-07408	
A-5	17	100 S.F.			STL		ABS	18-F GEN NOTE #8	10.2# ⅊ (TO CUT)	ERS-222666	9-20-05008	11
	18	28			CRES		COML	25-E CL 316	HEX NUT (HVY) 7/8" 9-NC-3B (MAKE FROM 1½" HEX BAR)	ERS-222676	9-34-32808	
	19	28			BRASS		WW-P-351	25-E	COLLAR ½" STD PIPE L=5/16"	ERS-222667	9-45-00153	
	20	16			STL		ABS	26-B GEN NOTE #8	20.4# ⅊ CLIP 2½"x2"		9-20-05016	
	21	32			CRES		COML	26-B CL 316	NUT, HEX HD 3/4"-10UNC-3B		9-60-06908	
	22	16			↓		COML	26-B ↓	THREADED ROD 3/4"-10UNC-2A L=6"	MAKE FROM 3/4" RD. ROD	9-34-32400	
	23	8 L.F.			NEOPRENE		COML	26-B	GASKET 1x½ STRIP	ERS-222660	9-54-15405	
	24	4			NEOPRENE		COML	25-C	GASKET 1" THK 15"x3"		9-54-14608	
	25	12 L.F.			NEOPRENE		COML	25-B & 27-C	GASKET 1x½ STRIP	ERS-222660	9-54-15405	
	26	12 L.F.			STL		ASTM-A131	25-B GEN NOTE #8	1¼x3/8 FB		9-30-01336	4
	27	8 S.F			STL		ABS	24-B ↓	20.4# ⅊ (TO CUT)	ERS-222666	9-20-05016	2
	28	4 S.F.			STL		ABS	24-B	15.3# ⅊ (TO CUT)	↓	9-20-05012	2
	29	28			BRASS		QQ-B-637	25-E	PIN 1/8" DIA L=1"		9-37-00641	
G3 A-5	30	22			STL		ABS	25-D GEN NOTE #8	COVER LUG 1"x1½" FB LG=2½"		9-30-05011	
B-1	31	4			STL		ABS	25-D ↓	COVER LUG 1"x1½" FB LG=3" ABT		↓	
A-5	32	24			STL		ABS	24-D	DOG 30.6# ⅊x2¼"x5½"		9-20-05024	
	33	4			STL		ABS	24-D ↓	DOG 30.6# ⅊x2¼"x3 3/8"		↓	
	34	28			PHOS BRONZE GR A		MIL-B-16540	25-E	EYE BOLT CASTING EST WT=1.5#	30613-06X1-34	W527-300-001	
	35	2			STL		ASTM-A131	27-C GEN NOTE #8	1" DIA ROD LG=4" ABT		9-30-00338	
	36	40 L.F.			STL		COMML	25-E ↓	STRIP ½"x1/8"		9-30-01235	
	37	40 L.F.			NEOPRENE		COML	25-E	GASKET 1x1 STRIP		W528-301-001	
D-1	38	43 L.F.			STL		ABS	18-F GEN NOTE #8	3"x3/8" FB		9-30-05034	
	39	10			STL		ASTM-A131	19-D ↓	½" DIA ROD LG=6" ABT		9-30-00329	
A5	40	AS REQ			ADHESIVE		COML		ADHESIVE		9-88-00951	
D-1	41	8 L.F			NEOPRENE		COML	23-E	GASKET 3¼"x¼" THK (TO CUT)		9-54-14504	
D-1	42	8			CRES		COML	CL 316	BOLT, HEX HD ½" 13UNC-2A LG=1¾"	ERS 223127	9-60-00379	
D-1	43	8			NI-CU		COML		NUT, HEX SELF LKG ½" 13UNC-3B		9-60-07404	
D-2	44	5 S.F			STL		ABS	27-E GEN NOTE #8	15.3# PL 42"x16" (TO CUT)		9-20-05012	
D-2	45	2.5 S.F.			STL		ABS	28-E ↓	20.4# PL 9"x41" (TO CUT)		9-20-05016	
F-4	46	2			STL GALV		ASTM-A105	13-B	3" (HALF) COUPLING THREADED, 300# (CUT FROM 3" COUPLING)	ERS 230819	9-14-07941	
F-4	47	18 LIN FT			↓		ASTM-A53	↓	PIPE 3" x STR (TO CUT 2 PCS, ONE END THREADED)	ERS 230820	9-40-01813	
F-4	48	1 LIN FT			↓		↓		PIPE 3½" STD (TO CUT 2 PCS, EA PC ABT 6" LG)	ERS 230820	9-40-01845	
G4	49	4			STL		ABS	18-A, 18-D	40.8# ⅊ 4"x3"		9-20-05032	
G4	50	4			↓		↓	↓ ↓	3"x½" FB LG=4"		9-30-05035	
G5	51	1			↓		↓	11-B	40.8# ⅊ x4½"x6"		CUTTINGS	
H1	52	3			STL GALV		COML	18-A, 18-D	SAFETY ANCHOR SHACKLE-3/4" SIZE		9-61-03337	
H1	53	3			↓		QQ-S-741	17-A	STAPLE; ROD, ROUND, 3/4" DIA x 7½" LG		9-30-00708	
H1	54	3			VARIOUS		COML	9-A	CHAIN HOIST; 1 TON CAP., 8' LIFT		M1222-701-001	
J1	55	1			STL		ABS	7-A	10.2# ⅊ 16"x40" (TO CUT 6 PCS)		9-20-05008	
J1	56	1			STL		QQ-F-461	7-A	11.25# DIAMOND ⅊ PATT "B" 12"x39"		9-20-00700	
J1	57	2			STL		ABS	6-A	20.4# ⅊ 2½"x5"		CUTTINGS	
J1	58	2			CRES			6-A	STD SECURING PIN 3/4" DIA "L"=1¼" C=12'	ASSY 89	ORD ON REF 15	

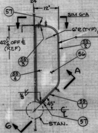
RESERVATIONS

A-5 ~~1. WT COVERS FOR HAWSE PIPE DK BOLSTERS RES PENDING DESIGN DEVELOPMENT.~~

D-3 A-8 ~~2. ANCHOR WINDLASS STROKE CONTROL PENDING INFO FROM VENDOR.~~



6-A J1
3"=1'-0"



7-A J1
1"=1'-0"

241-526-02-01 J 2

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
9A', 12B' 16D', 21C' 19A', 19F' 5E' 7G⁴	A CONT	6. ℄ GIRDER & ACCESS TO CHAIN LKR IND IN 9-A & 12-B 7. SNIPES REVISED IN 16-D & 21-C. 8. ANCHOR WINDLASS STROKE CONTROL ADDED IN 9-A & 9-F & RESERVATION #2 ADDED TO SUIT. 9. IN L/M PCs 8, 9, 10 & 12 SOURCE NOs DELETED & IND ORDERED ON MODULE PLANS. SOURCE: ITEM 1, 4 & 5 DES DEV. 2 & 9 CORR ACTION. 3 & 8 CONF W/ OWNER. 6 & 7 J.J. HENRY APPROVAL LTR.						
7F' 9A' 9F'	B	1. L/M PC 31 SIZE CORR. 2. 9-A & F: INDIC OF DK BOLSTER COVER CORRECTED. MATL CHANGES: PC 31 9-30-05011 SIZE REV (WAS 1"x½" FB) MJD TES	8/12/70	F.d.R.			13 AUG 1970	
9F'	C	1. 9-F: REV. FDN NO. FOR PC. NO. 8(P) FROM 2 TO 7. SOURCE: AEA S-0105 LYKES MJD TES	8/12/70	F.d.R.			13 AUG 1970	
9A', 9F' 18F', 21F' 22E', 23E' 6E⁴ 9F', 27E' 28E', 6E² 9A', 9F' 5D'	D	1. HAWSE PIPE W.T. COVER, 9-A, 9-F, 18-F & 21-F REVISED. 22-E & 23-E ADDED TO SUIT. THIS ITEM RELEASES ANDC S-0364. 2. CHAIN STOPPER SADDLE STOWAGE ADDED. 9-F REVISED. 27-E & 28-E ADDED TO SUIT. 3. INDICATION OF ANCHOR WINDLASS STROKE CONTROL IN 9-A & 9-F REVISED & RESERVATION #2 REMOVED SOURCE: ITEM 1 THRU 3 DES DEV MATERIAL CHANGES CODE PC 38 9-30-05034 15 LIN FT ADDED. PC 41 9-54-14504 8 LIN FT ADDED PC 42 9-60-00379 8 ADDED PC 43 9-60-07404 8 ADDED PC 44 9-20-05012 5 SQ FT ADDED PC 45 9-20-05016 2.5 SQ FT ADDED CMcN RMc	10/1/70	F.d.R.			1 OCT 1970	
	E	1. WINDLASS FDN REF NO. REV IN 9-A (WAS REF 6) & REF 6 DELETED TO SUIT. 2. DIM. FROM TOP OF BOLSTER TO LUG (PC 30) ADDED IN 25-E. 3. LOC DIM. FOR PC 31 & 33 ADDED IN 27-A. 4. REF 14 ADDED IN REF TABLE & INDICATED IN 9-F. 5. LOC DIM. FOR PC 32 ADDED IN 27-C. 6. CONN OF PC 27/2 TO 26/3 & 26/4 REV IN 18-F, 21-F & 23-F. 21-G ADDED TO SUIT. SOURCE: ITEM 1 THRU 6 - YARD REQUEST FJM TES	4/19/71	F.R.			4/21/71	

REVISIONS CONT IN PANEL 28

GENERAL NOTES

1. FOR ADDITIONAL DETAILS & GENERAL NOTES SEE REF #1.
2. FOR WELDING DETAILS & GENERAL NOTES SEE REF #2.
3. FOR PAINTING & COLOR CODING OF ANCHOR CHAIN SEE REF #11.
4. EXACT LOCATION OF PC 8 & 9 TO BE DETERMINED ABOARD SHIP WHEN ANCHOR IS IN STOWED POSITION.
5. FOUNDATION NOS. LISTED ON MODULE PLANS ARE INDICATED BY THIS SYMBOL: △. FOR DET. OF FDN SHOWN ON THIS PLAN, SEE DET. NO. CORRESPONDING TO MODULE NO. AS FOLLOWS: 30(MODULE NO.) X 120. EXAMPLE: FDN △27, MODULE 102, WILL BE SHOWN ON PLAN 30102120.
6. EACH ANCHOR CHAIN TO BE MADE UP OF EQUAL LENGTHS CONSISTING OF (11) 15 FM SHOTS PC 2 & (1) 15 FM SHOT PC 5 IN ACCORDANCE WITH 12-E & 12-F.
7. FOR STOWAGE OF SPARE ANCHOR CHAIN LINKS PC 3 & 4 SEE REF #13.
8. A-5 PCS OR ASSEMBLIES REFERRED TO THIS NOTE TO BE COATED WITH INORGANIC ZINC, APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, OVER ABRASIVE-BLASTED STEEL.

REFERENCES

	NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
J1	15	STANDARD SECURING PINS	30539-02x1	241-S12-05-01
E4	14	DK BOLSTER FR SECT. FOR PATT SHOP	30613-10x4	241-S11-01-08
	13	MISC STOWAGES ASSY DETS & L/M	30579-07x1	241-S30-01-03
	12	PIPING FORE PEAK TANK	30101200	
	11	PAINT SCHEDULE	30261-01x1	241-S19-01-01
	10	UNIT 207 RIGGING & OUTBD FTGS	30207120	
	9	UNIT 206 RIGGING & OUTBD FTGS	30206120	
	8	UNIT 102 RIGGING & OUTBD FTGS	30102120	
	7	UNIT 101 RIGGING & OUTBD FTGS	30101120	
E1	~~6~~	~~UNIT 206 FOUNDATIONS~~	~~30206140~~	
	5	STBD BOW CHOCK	30615-08x3	241-S12-01-02
	4	HAWSE PIPE DET	30613-10x1	241-S12-01-01
	3	MOORING & WARPING ARR	30615-08x1	241-S26-01-03
	2	STANDARD WELDING DETAILS	30313-01x2	241-S29-06-01
	1	STANDARD STRUCT DETAILS	30313-01x1	241-S11-17-01

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC	REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
9A' 9F' 9A', 9F' 9A', 9F' VARIOUS	A	PLAN APPROVED BY J.J. HENRY LTR, FILE 5589/S26/AHS-181/70 DTD 4-22-70. CMcN MJC 1. IND. OF BRAKE HNDWHLS ON ANCHOR WINDLASS RELOC IN 9-F TO SUIT LATEST VENDOR PLAN. 2. IND OF LONG'L BHDS FOR ANCHOR WINDLASS ROOM RELOC TO 11'-5½" OFF ℄ P/S IN 9-F. 3. BITTER END CONN RELOC TO FWD END OF CHAIN LKR IN 9-A & 9-F. 4. W.T. ENCL AROUND BOW CHOCK DELETED IN 9-A & 9-F TO SUIT REF #5. 5. HAWSE PIPE COVER COMPLETED. 19-D, 21-D, 23-A, 27-A, 27-C & GEN NOTE #8 ADDED & 9-A, 18-F, 24-B, 24-D, 25-B, 25-C, 25-D, 25-E & 26-B REVISED TO SUIT. IN L/M PC NOs 17 THRU 40 ADDED TO SUIT. THIS ITEM RELEASES RESERVATION #1.	6/5/70				1 JUN 1970	

(REVISION "A" CONT IN PNL 3)

REVISIONS TO	O	A	B	C	D	E	F	G	H	J
		6/8/0	8/18/0	8/18/0	10/2/0	4/23/1	11/23/1	12/18/1	1/7/2	3/3/2
LYKES					1	1	1	1	1	1
M.A.(WASH)					1	1	1	1	1	1
M.A.(YARD)		1	1	1	1	1	1	1	1	1
J.J.HENRY(YARD)		1	1	1	1	1	1	1	1	1
J.J.HENRY(HOME)					1	1	2	2	2	2
ABS Y/D		1	1	1	1	1	1	1	1	1
USCG Y/D		1	1	1	1	1	1	1	1	1
USPHS					1	—	—			
871		5	4	4	4	5	5	4	4	4
872		4	4	4	2	2				
873										
874		1	—	—	—					
875										
876		2	2	2	1	—				
TPS 866		1	1	1	1		1	1	1	1
LAISIEN 868			1	1	2	1	1	1	1	1
TOTAL NRO'S FS			17	17	19					
TOTAL NRO'S HS						15	15	14	14	14
TOTAL RO										

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	6-12-0	800		4
30212	B	8-19-0	820		7
"	D	10-2-0	826		12
"	E	4-23-1	829		
	F	11-23-1	830		7
	G	12-11-1	841		1
	H	1-10-2	842		
	J	3-6-2	843		
			844		
			899		
			LIBRARY		3
		LAURIER	812		1
			828		1
			840		1
			LOUD 820		1
			[illegible]		1
			TOTAL		39

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G	H	J

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
J 12-21-73
J 11-20-73

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30613-06x1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN CMcN/MJD
DSGNR MJC
SUPV
ENGR M.K.

ANCHOR HANDLING & TOWING ARR & DETS

APPROVED DATE 3-27-70
FOR GENERAL DYNAMICS QUINCY DIVISION

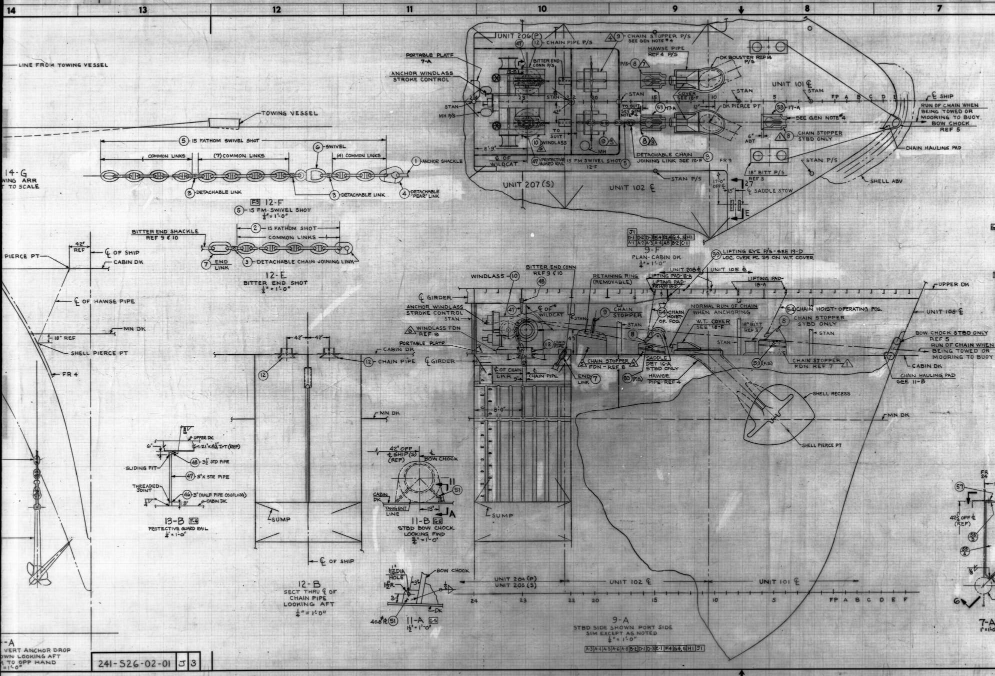
APPROVAL LTR DATED
ABS
USCG
USPHS

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S26-02-01	J

SCALE: AS NOTED SHEET 1 OF 1

AREA = 33 SQ FT

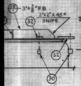
DWG. NO. 30613-06x1

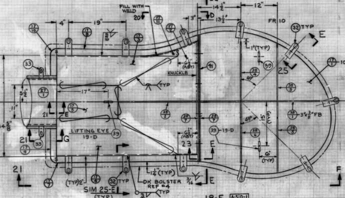

14
13
12
11
10
9
8
7
LINE FROM TOWING VESSEL
TOWING VESSEL
14-G
WING ARR
T TO SCALE
(5) 15 FATHOM SWIVEL SHOT
COMMON LINKS
(7) COMMON LINKS
(6) SWIVEL
(4) COMMON LINKS
(1) ANCHOR SHACKLE
(3) DETACHABLE LINK
(3) DETACHABLE LINK
(4) DETACHABLE "PEAR" LINK
F3 12-F
(5) 15 FM. SWIVEL SHOT
½" = 1'-0"
BITTER END SHACKLE
REF 9 & 10
(2) 15 FATHOM SHOT
COMMON LINKS
(7) END LINK
(3) DETACHABLE CHAIN JOINING LINK
12-E
BITTER END SHOT
½" = 1'-0"
42" REF
℄ OF SHIP
PIERCE PT
CABIN DK
℄ OF HAWSE PIPE
MN DK
18" REF
SHELL PIERCE PT
FR 4
PORTABLE PLATF
7-A
ANCHOR WINDLASS
STROKE CONTROL
STAN
MH P/S
UNIT 206 (P)
(47)
(12) CHAIN PIPE P/S
4 (9) CHAIN STOPPER P/S
SEE GEN NOTE #4
HAWSE PIPE
REF 4 P/S
P/S (8) 7
DK BOLSTER REF 14
P/S
13-B1
BITTER END CONN P/S
STAN
42"
TO SUIT
(10) WINDLASS 6
8'-9"
℄ OF WILDCAT
(47) PROTECTIVE GUARD RAIL
15 FM SWIVEL SHOT 12-F (5)
MH
(9) 5
TO SUIT SEE GEN NOTE #4
(53) 17-A
(8) 3
DETACHABLE CHAIN
JOINING LINK SEE 12-F (3)
COVER SEE 18-F
12"
DK PIERCE PT
UNIT 101 ℄
STAN
(53) 17-A
SEE GEN NOTE #4
6" ABT
1 (8) CHAIN STOPPER
STBD ONLY
FP A B C D E
℄ SHIP
RUN OF CHAIN WHEN
BEING TOWED OR
MOORING TO BUOY.
BOW CHOCK
REF 5
CHAIN HAULING PAD
STAN P/S
SHELL ABV
FR 9
18" BITT P/S
REF 3
17'-0" OFF ℄
15"
27
E
℄ SADDLE STOW
STAN P/S
UNIT 207 (S)
UNIT 102 ℄
J1
D-1 D-2 D-3 E4 F2,4 G4,5 H1
A-1 A-2 A-3 A-4 A8 B-2 C-1
9-F
PLAN-CABIN DK
¼" = 1'-0"
(39) LIFTING EYE P/S - SEE 19-D
LOC. OVER PC 39 ON W.T. COVER
UNIT 208 ℄
UNIT 105 ℄
WINDLASS (10)
BITTER END CONN
REF 9 & 10
(48)
RETAINING RING
(REMOVABLE)
LIFTING PAD-18-A
LIFTING PAD-
FR14(P) 18-D
LIFTING PAD-
18-A
UPPER DK
℄ GIRDER
ANCHOR WINDLASS
STROKE CONTROL
STAN
(47)
℄ OF WILDCAT
℄ STAN
(9) CHAIN STOPPER
STAN
(54) CHAIN HOIST-OP. POS.
NORMAL RUN OF CHAIN
WHEN ANCHORING
(54) CHAIN HOIST-OPERATING POS.
(8) CHAIN STOPPER
STBD ONLY
W.T. COVER
SEE 18-F
18" BITT
REF 3
STAN
UNIT 105 ℄
6 WINDLASS FDN
REF 9
PORTABLE PLATF
(12) CHAIN PIPE
49
(8)
5 CHAIN STOPPER
FDN - REF 8 3
SADDLE
DET 16-A
STBD ONLY
HAWSE
PIPE-REF 4
(53) (F.S.)
(53) (F.S.)
CHAIN STOPPER
FDN REF 7 1
BOW CHOCK STBD ONLY
REF 5
RUN OF CHAIN WHEN
BEING TOWED OR
MOORING TO BUOY
CABIN DK
CHAIN HAULING PAD
SEE 11-B
℄ GIRDER
℄ OF CHAIN LKR
9"
℄ CHAIN PIPE
END LINK (7)
SHELL RECESS
SHELL PIERCE PT
MN DK
8'-0"
SUMP
42"
42"
CABIN DK
(12) CHAIN PIPE
(12)
MN DK
SUMP
℄ OF SHIP
12-B
SECT THRU ℄ OF
CHAIN PIPE
LOOKING AFT
¼" = 1'-0"
UPPER DK
6"
21" × 8¾ I-T (REF)
SLIDING FIT
(48) 3½" STD PIPE
(47) 3" X STR PIPE
THREADED JOINT
(46) 3" (HALF PIPE COUPLING)
3"
CABIN DK
13-B F4
PROTECTIVE GUARD RAIL
½" = 1'-0"
42" OFF
℄ SHIP (S)
(REF)
℄ BOW CHOCK
CABIN DK
TANGENT LINE
13"
A
(51)
11-B G5
STBD BOW CHOCK
LOOKING FWD
⅜" = 1'-0"
1½ DIA HOLE
1½ R
BOW CHOCK
DK
40# ℄ (51)
11-A G5
1½" = 1'-0"
UNIT 204 (P)
UNIT 205 (S)
UNIT 102 ℄
UNIT 101 ℄
24
23
22
20
15
10
5
FP A B C D E F
9-A
STBD SIDE SHOWN PORT SIDE
SIM EXCEPT AS NOTED
¼" = 1'-0"
A-3 A-4 A-5 A-6 A-8 B-2 D-1 D-3 E-1 F4 G4,5 H1 J1
FR 24
12"
SIM G-A
(57)
6" ℄ (TYP)
42" OFF ℄
(REF)
(55)
(56)
(55)
A
(55)
(57)
G
STAN.
45°
7-A J1
1" = 1'-0"
-A
VERT ANCHOR DROP
OWN LOOKING AFT
TO OPP HAND
= 1'-0"

241-526-02-01 | J | 3

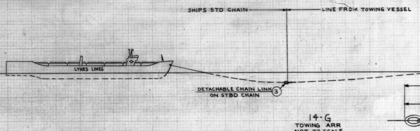
	PIECE NO.	QUANTITY INSTL.		QUANTITY OBRP
	1	3		
	2	22		
F3	3	30		6
	4	2		2
	5	2		
	6	2		
	7	2		
A-9	8	3		
A-9	9	2		
A-9	10	1		
	11	1		
A-9	12	2		
	13	1		
G1	14	2		
	15	10		
	16	10		
A-5	17	100 S.F.		
	18	28		
	19	28		
	20	16		
	21	32		
	22	16		
	23	8 L.F.		
	24	4		
	25	12 L.F.		
	26	12 L.F.		
	27	8 S.F.		
	28	4 S.F.		
	29	28		
G3 A-5	30	22		
B-1	31	4		
A-5	32	24		
	33	4		
	34	28		
	35	2		
	36	40 L.F.		
	37	40 L.F.		
D-1	38	43 L.F.		
	39	10		
A5	40	AS REQ		
D-1	41	8 L.F.		
D-1	42	8		
D-1	43	8		
D-2	44	5 S.F.		
D-2	45	2.5 S.F.		
F-4	46	2		
F-4	47	18 LIN FT		
F-4	48	1 LIN FT		
G4	49	4		
G4	50	4		
G5	51	1		
H1	52	3		
H1	53	3		
H1	54	3		
J1	55	1		
J1	56	1		
J1	57	2		
J1	58	2		

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-526-02-01GD NO.30613-06x1 FRAME 1 ② 3 4

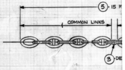

3"x3/8" FB
2"x2"x45° SNIPE
32
30

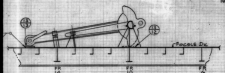

FILL WITH WELD
20
22
D
E
F
14½"
12"
13½"
3"
4"
19"
FR 10
42" OFF ℄ SHIP
16"
34⅝"
17"
LIFTING EYE 19-D
KNUCKLE
23
25
21
G
10.2# PL
3¼"x3/8" FB
1¼"(TYP)
DK BOLSTER REF #4
SIM 25-E (TYP)
33
39
41

18-F A-5 D-1 E6 F-2
1½"=1'-0"
STBD COVER SHOWN-PORT SIM TO OPP. HAND

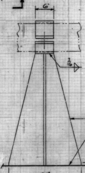

SHIPS STD CHAIN
LINE FROM TOWING VESSEL
LYKES LINES
DETACHABLE CHAIN LINK ON STBD CHAIN
3

14-G
TOWING ARR
NOT TO SCALE

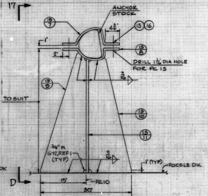

5 15 F
COMMON LINKS
3 DE


FOCSLE DK
FR 14
FR 10
FR 6

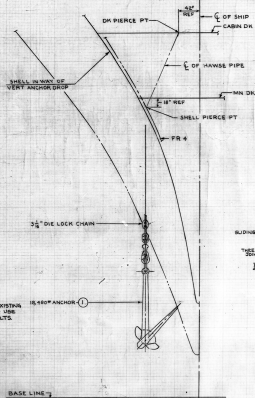
20-E
3/8"=1'-0"


6"
24"
1"(TYP)
FOCSLE DK

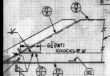
17-D
1½"=1'-0"


17
ANCHOR STOCK
4½"
1"
2"
DRILL 1½" DIA HOLE FOR PC 15
TO SUIT
3/4" R 6-12 REF (TYP)
1"(TYP)
FOCSLE DK
D
15"
30"
FR10

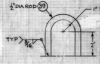
A-7
16-D
1½"=1'-0"
(2) REQ'D


BITTER END SHACKLE REF 9 & 10
42" REF
DK PIERCE PT
℄ OF SHIP
CABIN DK
℄ OF HAWSE PIPE
SHELL IN WAY OF VERT ANCHOR DROP
MN DK
18" REF
SHELL PIERCE PT
FR 4
3 1/16" DIE LOCK CHAIN
18,480# ANCHOR 1
BASE LINE

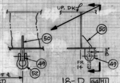
14-A
SECT IN WAY OF VERT ANCHOR DROP
STBD SIDE SHOWN LOOKING AFT
PORT SIDE SIM TO OPP HAND
¼"=1'-0"


6½" (ABT)
KNUCKLE
32

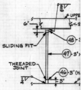
F2 20-D
1½"=1'-0"
SIM & DETS NOT SHOWN SEE 21-F


½" DIA ROD 39
1" R
TYP 3/16
2"

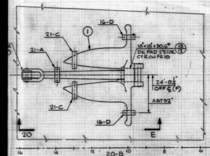
A-3
19-D
6"=1'-0"


UP. DK
50
49
52
FR 14
42" OFF ℄ (PORT)

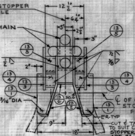
18-D G4 H1
1½"=1'-0"
℄, LOOKING TO PORT-DETS. NOT SHOWN SIM TO 18-A

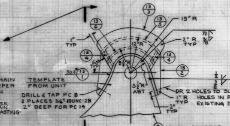

6"
UPPER
SLIDING FIT
THREADED JOINT
48
47
46

13-B F-4
PROTECTIVE GUARD RA
¼"=1'-0"


16-D
21-C
21-A
1
18"x18"x30.6" DK PAD 2" ℄ OF CTR ON FR 10
24'-8½" OFF ℄ (P)
ABT 92"
20
E
16 14 12 10 8 6

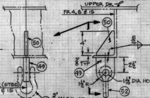
20-B
PLAN-FOCSLE DK
STOWAGE OF SPARE ANCHOR (P)
3/8"=1'-0"


℄ OF CHAIN STOPPER & SADDLE
12½"
6¼"
3 1/16" DIE LOCK CHAIN
5"
2¼"
3"
2"
9"
18"
℄ OF CHAIN STOPPER PIN
CUT & TAPER TO SUIT CHAIN STOPPER CASTING ABT 3"
DRILL 2 HOLES 13/16" DIA FOR PC 14

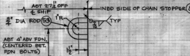

15"R
12"R
2" R TYP
1" TYP
TEMPLATE FROM UNIT
DRILL & TAP PC 8 2 PLACES 3/4"-10UNC-2B 2" DEEP FOR PC 14
DR 2 HOLES TO SUIT EXISTING HOLES IN PC 8 - USE EXISTING 1¼" BOLTS
1" R TYP
8 CHAIN STOPPER

NOTE: CHAIN STOPPER PAWL STOP TO BE REMOVED PRIOR TO INSTALLING SADDLE.

G1 16-A
SADDLE
1-REQ'D
1½"=1'-0"


UPPER DK
FR 4, 8 & 15
50
49
52
1 1/8" DIA HOLE
42" OFF ℄ (STBD) AT FR 4 & 15
17'-0" OFF ℄ (STBD) AT FR 8
¾" AN SH-AT FR 4 & 15 ONLY

18-A G4 H1
3"=1'-0"
STBD LOOKING INBD


ABT 2'7½" OFF ℄ SHIP
INBD SIDE OF CHAIN STOPPER 8
3/4" DIA ROD 53
1"R
ABT 4" ABV FDN. (CENTERED BET. FDN BOLTS)

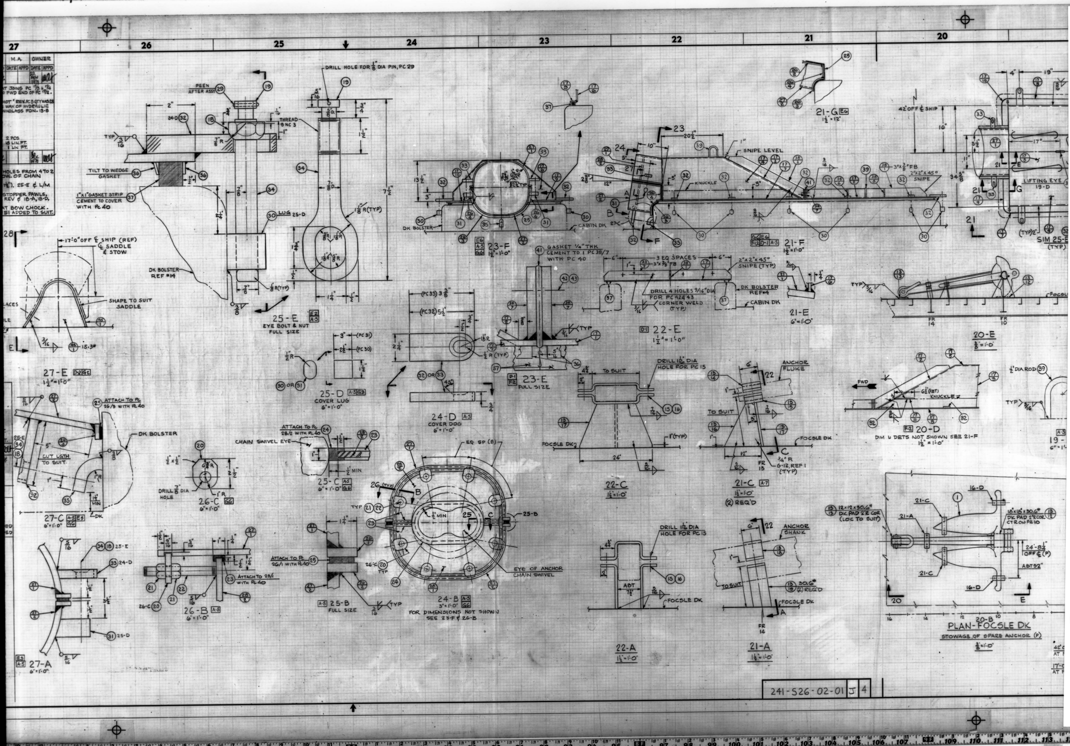
17-A H1
3"=1'-0"
STAPLE
(FOR STOWAGE OF LOWER HOOK OF CHAINFALL, PC 54)

241-S26-02-01 J 3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-526-02-01GD NO.30613-06×1 FRAME 1 2 ③ 4

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO. 241-526-02-01 GD NO. 30613-06x1 FRAME 1 2 3 ④ 5


27
26
25
24
23
22
21
20
M.A. OWNER
DATE APPD DATE APPD
DRILL HOLE FOR 1/8" DIA PIN, PC 29
PEEN AFTER ASSY
THREAD 8 NC 3
TILT TO WEDGE GASKET
1"x1" GASKET STRIP CEMENT TO COVER WITH PC 40
LUG 25-D
DK BOLSTER REF #14
25-E EYE BOLT & NUT FULL SIZE
17'-0" OFF ℄ SHIP (REF) ℄ SADDLE & STOW
SHAPE TO SUIT SADDLE
27-E 1 1/2"=1'-0"
23-F 1 1/2"=1'-0"
DK BOLSTER
CABIN DK
KNUCKLE
SNIPE LEVEL
3"x3/8" FB
2"x2"x45° SNIPE
21-G 1 1/2"=12"
42' OFF ℄ SHIP
LIFTING EYE 19-D
SIM 25-E (TYP)
21-F 1 1/2"=1'-0"
GASKET 1/4" THK CEMENT TO 1 PC 38/7 WITH PC 40
3 EQ SPACES
DRILL 4 HOLES 9/16" DIA FOR PC 42 & 43
CORNER WELD (TYP)
DK BOLSTER REF #4
22-E 1 1/2"=1'-0"
21-E 6"=1'-0"
20-E 3/8"=1'-0"
25-D COVER LUG 6"=1'-0"
24-D COVER DOG 6"=1'-0"
23-E FULL SIZE
TO SUIT
DRILL 1 1/2" DIA HOLE FOR PC 15
FOCSLE DK
22-C 1 1/2"=1'-0"
ANCHOR FLUKE
21-C 1 1/2"=1'-0" (2) REQ'D
G-12, REF 1 (TYP)
FWD
KNUCKLE
20-D 1 1/2"=1'-0"
DIM & DETS NOT SHOWN SEE 21-F
1/2" DIA ROD
ATTACH TO PC 26/3 WITH PC 40
CUT LGTH TO SUIT
27-C 6"=1'-0"
CHAIN SWIVEL EYE
ATTACH TO PC 28/2 WITH PC 40
25-C 6"=1'-0"
26-C 6"=1'-0"
DRILL 7/8" DIA HOLE
EQ SP (8)
EYE OF ANCHOR CHAIN SWIVEL
24-B 3"=1'-0" FOR DIMENSIONS NOT SHOWN SEE 23-F & 26-B
ATTACH TO PC 26/1 WITH PC 40
25-B FULL SIZE
ATTACH TO 28/1 WITH PC 40
26-B 6"=1'-0"
27-A 6"=1'-0"
22-A 1 1/2"=1'-0"
ANCHOR SHANK
30.6# (2) REQ'D
21-A 1 1/2"=1'-0"
12x12x30.6# DK PAD 2'-2 COR (LOC TO SUIT)
18x18x30.6# DK PAD 2'-2 COR CTR ON FR 10
24'-8 3/4" OFF ℄ (P)
ABT 92"
PLAN - FOCSLE DK
STOWAGE OF SPARE ANCHOR (P)
20-B 3/8"=1'-0"
241-S26-02-01 J 4

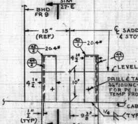
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-526-02-01GD NO.30613-06x1 FRAME 1 2 3 4 ⑤

ZONE	LTR	REVISIONS (CONT FROM PANEL 3) DESCRIPTION		Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	F	1. 21-F: HGT OF ℄ OF OPNG AT AFT VERT SURFACE OF PC 17/6 & SLOPE OF PC 27/1 & 27/2 ADDED. 2. 18-F & 23-E: REVISED PORTION OF COVER THAT JOINS PC 17/3 & 17/4 WITH 17/2, ADDED PC 17/1 & ADDED KNUCKLE TO FWD END OF PC 17/2. 20-D ADDED & 9-F & 21-F REV TO SUIT. 3. 12-F: ARR OF PC 5 "15 FATHOM SWIVEL SHOT" REV. PC 3 QTY WAS 28 4. 9-F: PROTECTIVE GUARD RAIL ADDED IN WAY OF HYDRAULIC PIPING AT FR 23 P/S INBD & OUTBD OF WINDLASS FDN. 13-B ADDED & 9-A REV TO SUIT. SOURCE: ITEMS 1 & 2 CORR ACTION ITEM #3 AEA S-0901-LYKES ITEM #4 AEA S-0907-LYKES MATERIAL CHANGES: PC 46 CODE 9-14-07941 ADDED 2 PCS PC 47 ↓ 9-40-01813 ↓ 18 LIN. FT. PC 48 ↓ 9-40-01845 ↓ 1 LIN. FT.	A.F.	11/[illegible]/71				22 NOV 1971	
7G' 16A' 27E' 28E' 7F', 24D' 25E' 7D', 9A' 18A', 18D' 7D', 9A', 9F' 11A', 11B'	G	1. 16-A: CHAIN SADDLE REV TO SUIT CHAIN STOPPER CASTING. IN L/M, REV QTY OF PC 14 (WAS 4) TO SUIT. 2. 27-E & 28-E: REV QTY OF TAPPED HOLES FROM 4 TO 2 & DELETED NOTE REFERRING TO STOW. OF CHAIN STOPPER PAWL STOP. 3. 25-D: REV LGTH OF PC 30. (WAS 1½"). 25-E & L/M REV TO SUIT. 4. LIFTING PADS ADDED OVER CHAIN STOPPER PAWLS, SADDLE & SADDLE STOWAGE. 9-A REV & 18-A, 18-D, PC 49 & 50 ADDED TO SUIT. 5. PAD ADDED FOR HAULING CHAIN AT BOW CHOCK. 9-A & 9-F REVISED & 11-A, 11-B & PC 51 ADDED TO SUIT.	MG	12/[illegible]/71				[illegible] DEC 1971	

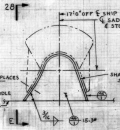
REVISION CONT IN ZONE D

CONT FROM ZONE G

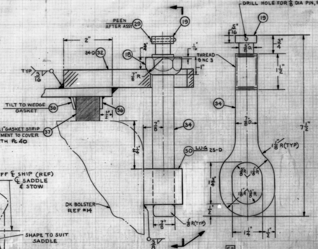
ZONE	LTR	DESCRIPTION		Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
21F' 23F' 24B' 25C' 27C'	G (CONT)	6. ARR OF W.T. COVER REV. IN WAY OF RELOCATED ANCHOR CHAIN SWIVEL. 21-F, 23-F, 24-B, 25-C, 26-C & 27-C REV. TO SUIT. SOURCE: ITEMS 1, 2 & 3, PLAN ERROR. ITEM 4, AEA S-0975-LYKES, REV "B". ITEM 5, AEA S-0995-LYKES ITEM 6, REV "F", ITEM 3, SUBJ. PLAN. MATERIAL CHANGES: PC 14 CODE 9-60-00398 DELETED 2 PCS. 30 9-30-05011 ADDED 2 L/F 49 9-20-05032 0.4 SQ. FT. 50 9-30-05035 1.4 L/F 51 CUTTINGS 0.2 SQ. FT.							
7D', 9A' 9F', 17A' 18A' 18D'	H	1. CHAIN HOISTS, STAPLES & SHACKLES ADDED FOR HANDLING CHAIN STOPPER PAWLS. 9-A, 9-F, 18-A & 18-D REVISED & 17-A & L/M PC 52, 53 & 54 ADDED TO SUIT. SOURCE: ITEM 1, AEA S-1037-LYKES. MATERIAL CHANGES: PC 52 CODE 9-61-03337 ADDED 3 PCS PC 53 CODE 9-30-00708 ADDED 2 LIN. FT.	MG	12/30/71				7 JAN 1972	
	J	1. 9-A & F: PORTABLE PLATE ADDED TO FWD SIDE BHD 24. 6-A, 7-A, L/M PC 55-58 & REF 15 ADDED. SOURCE: AEA S-1066 MATL CHANGES PC 55 CODE 9-20-05008 4.5 SQ FT ADDED PC 56 CODE 9-20-00700 3.3 SQ FT ADDED	TES	3/[illegible]/72					


SIM 27-E
BHD FR 9
15" (REF)
℄ SADDLE & STOW
20.4#
LEVEL
DRILL & TAP (2) PLACES 3/4" 10UNC-2B FOR PC 14 TEMP FROM SADDLE
CABIN DK
4½"
10"
9 3/8"
18 3/4"
½" (TYP)
¼ TYP
28

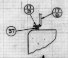
G2 D2 28-E
1½"=1'-0"

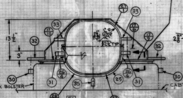

17'-0" OFF ℄ SHIP (REF)
℄ SADDLE & STOW
SHAPE TO SUIT SADDLE
15.3#
3/16
E

27-E D-2 G-1
1½"=1'-0"

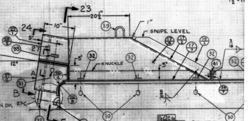

PEEN AFTER ASSY
DRILL HOLE FOR 1/8 DIA PIN, PC 29
THREAD 9NC 3
TILT TO WEDGE GASKET
1"x1" GASKET STRIP CEMENT TO COVER WITH PC 40
DK BOLSTER REF #14
LUG 25-D
1⅛ R (TYP)
⅛ R (TYP)
7½"
TYP 3/16
24-D
29 19 18 36 37 34 30

25-E E2 A-5
EYE BOLT & NUT
FULL SIZE

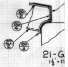



DK BOLSTER
CABIN DK
13½"
3"
2¾" TYP

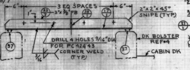
E6 A-5 G6 23-F
1½"=1'-0"


23
24
10"
20½"
SNIPE LEVEL
1"
KNUCKLE
5"
12"
CABIN DK
A
B
F
27-C

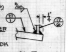
G6 E6 F12 D-1 A-5 21-F
1½"=1'-0"



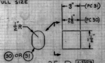
21-G
1½"=1'


6"
3 EQ SPACES
2"x2"x45° SNIPE (TYP)
3"x⅜" FB
DRILL 4 HOLES 9/16" DIA FOR PC 42 & 43
CORNER WELD (TYP)
DK BOLSTER REF #4
CABIN DK

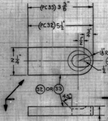
D-1 22-E
1½"=1'-0"



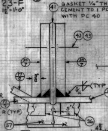
21-E
6"=1'-0"


3" (PC 31)
2⅝" (PC 30)
½ R
1½"
30 OR 31

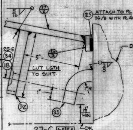
25-D A-5 G3
COVER LUG
6"=1'-0"


(PC 33) 3⅜"
(PC 32) 5½"
2¼
⅛ R
½ R
32 OR 33
¾

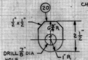
24-D A-5
COVER DOG
6"=1'-0"


GASKET ¼" THK CEMENT TO 1 PC 38/7 WITH PC 40
TYP
41 42 43 17 36 37

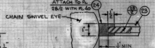
D-1 F2 23-E
FULL SIZE


ATTACH TO PC 26/3 WITH PC 40
DK BOLSTER
CUT LGTH TO SUIT
5"
1" MIN
DK
25-E

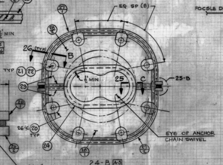
27-C A-5 E5 G6
6"=1'-0"


½"x½"
DRILL 7/8" DIA HOLE
2½"
1" R

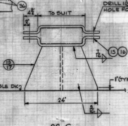
26-C G6
6"=1'-0"


ATTACH TO PC 28/2 WITH PC 40
CHAIN SWIVEL EYE
½" MIN

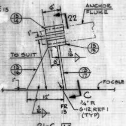
25-C A-5 G6
6"=1'-0"


EQ SP (8)
26 (TYP)
TYP
B
C
25
½" MIN
25-B
26-C
TYP
EYE OF ANCHOR CHAIN SWIVEL

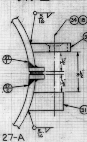
24-B A-5 G6
3"=1'-0"
FOR DIMENSIONS NOT SHOWN SEE 23-F & 26-B


DRILL 1⅛" DIA HOLE FOR PC 15
TO SUIT
FOCSLE DK
1" (TYP)
24"

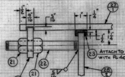
22-C
1½"=1'-0"


ANCHOR FLUKE
22
TO SUIT
FOCSLE DK
12"
C
¾" R
G-12, REF 1 (TYP)
FR 13

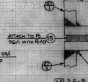
21-C A-7
1½"=1'-0"
(2) REQ'D


25-E
24-D
25-D
3½

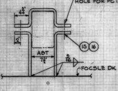
E5 A-5 27-A
6"=1'-0"


ATTACH TO 28/1 WITH PC 40
26-C

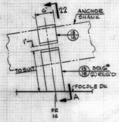
26-B A-5
6"=1'-0"


1¼"
ATTACH TO PC 26/1 WITH PC 40
26-C
TYP

A-5 25-B
FULL SIZE

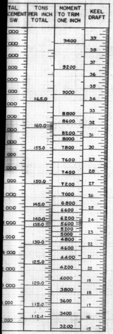

DRILL 1⅛" DIA HOLE FOR PC 15
ABT 7½
FOCSLE DK

22-A
1½"=1'-0"


ANCHOR SHANK
22
TO SUIT
30.6# (2) REQ'D
FOCSLE DK
A
FR 14

21-A
1½"=1'-0"

241-526-02-

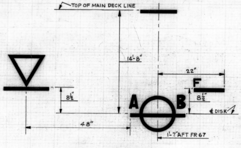


ER BALLAST

ME S	100% CAP L TONS	VCG ABV ℄	A + LCG ⋈ F −	P − TCG ℄ S +
9	674.99	36.91	-342.27	℄
3	578.13	19.06	-251.96	- 9.52
6	580.66	19.02	-251.96	9.49
3	1292.55	16.97	-206.34	℄
7	405.48	31.81	-203.69	-32.63
5	403.11	31.93	-203.79	32.82
8	786.84	29.44	-156.87	-34.00
5	783.39	29.53	-156.94	34.15
0	702.31	22.87	-108.84	-36.07
7	698.86	22.94	-108.82	36.24
9	1464.85	24.99	-60.70	-35.95
0	1457.10	25.07	-60.75	36.12
7	1694.66	23.71	-12.25	-36.87
5	1684.14	23.72	-12.30	37.02
1	904.24	23.29	23.88	-37.58
1	904.24	23.29	23.88	37.58
0	882.08	19.63	190.21	℄
5	1661.49	26.50	181.77	-37.28
8	1654.51	26.58	181.75	37.44
4	1170.04	21.93	230.14	℄
9	1590.87	32.96	230.98	-38.41
8	1583.97	33.06	231.00	38.58
2	1160.10	38.09	274.96	-39.71
2	1152.27	38.20	275.07	39.98
9	1298.15	41.80	323.55	-41.80
7	1283.28	42.02	323.83	42.28
8	1120.07	40.87	420.82	-46.76
8	1120.07	40.87	420.82	46.76
0	30692.45	29.07	86.61	- 0.01

ER

CG OP LVL ABV ℄	A + LCG OP LVL ⋈ F −	P − TCG OP LVL ℄ S +
12.48	47.64	℄



PLIMSOLL & TONNAGE MARKS

PRINCIPAL CHARACTERISTICS

LENGTH OVERALL — — — — 875'-11¼"
LENGTH BETWEEN PERPENDICULARS (20 STATIONS FR 0-109) — 740'-0"
LENGTH ABS LOAD LINE — — — — 824'-1⅞"
BEAM, MAXIMUM MOLDED — — — — 105'-10"
DEPTH TO MAIN DECK, AT SIDE AMIDSHIPS (ABS LOAD LINE) — 53'-7¾"
DRAFT, SCANTLING (MOLDED) — — — — 39'-0⅛"
DEAD WT AT SUMMER LOAD LINE KEEL DRAFT (39'-1½") — — 38,390 TONS
AMIDSHIPS ABS LOAD LINE IS 1'-7" AFT OF FR 67
AMIDSHIPS FOR LONGITUDINAL CENTERS IS 3'-6" FWD OF FR 63
(SEE ALSO GEN. NOTE NO. 3).

MACHINERY — — — — STEAM GEARED TURBINE
HORSEPOWER ABS — — — — 36,000
SEA SPEED — — — — 19.0 KNOTS
PROPELLER (1) — — 5 BLADES — — 23'-0" DIA

STORES

DECK	COMPARTMENT		FRAME	FLOOR AREA SQ FT	VOL CU FT	VCG ABV ℄	A + LCG ⋈ F −	P − TCG ℄ S +
BRIDGE	LINEN LKR SA	S	40	27.4	206	103.75	-187.69	18.15
	BATTERY	S	41	14.3	123	104.30	-179.00	16.75
	BOSN	℄	41	78.89	569	103.71	-168.06	℄
02 LEVEL	BONDED STORES DE	P	43	61.74	396	93.83	-159.66	-44.62
	NAVIGATION LKR DD	S	43	61.74	396	93.83	-159.66	44.62
01 LEVEL	ELECTRONIC SPARES DF	S	39-41	195.4	1804	86.60	-185.31	43.87
	BOSN STORES DG	S	43	91.5	661	85.48	-158.33	44.32
	STEWARDS SC	P	43	91.5	661	85.48	-158.33	-44.32
UPPER	SPECIAL CARGO LKR	℄	0-19	2080	24071	76.95	-356.21	℄
	BOSN LKR DJ	S	40	58.6	504	76.57	-186.30	46.54
	DM	P	40	105.2	905	76.59	-183.04	-46.45
	DO	S	78	50.4	504	80.42	129.92	45.27
	DP	P	79	52.2	522	80.42	137.85	-45.27
	DQ	S	105	78.5	785	82.52	347.20	48.66
	DR	P	105	124.0	1240	82.49	344.27	-48.13
	BOSN STORES DS	P	107	66.44	664	82.60	356.75	-48.52
	OIL SKIN LKR DN	P	43	20.92	180	76.60	-158.33	-48.44
	DL	S	43	20.92	180	76.60	-158.33	48.44
	EMERG GEAR DK	S	41	35.2	303	76.55	-180.45	+45.90
CABIN	PAINT LKR (DO)	P	0-15	196.5	2769	67.16	-342.88	-21.48
	SOILED LINEN SE	S	27	109.8	823	64.93	-287.96	37.48
	CLEAN SF	S	28	126.0	945	65.07	-275.63	38.29
	LINEN (SM)	S	35-36	45.4	341	65.58	-221.60	46.14
	(SP)	P	57	49.1	368	67.39	122.74	-47.83
	BULB (EA)	P	57	21.0	158	67.37	119.24	-44.55
	SOAP SL	P	34	42.0	305	65.46	-234.10	-45.32
	MEAT, FISH, FROZEN FOOD SG	S	27,28	275.0	2401	66.12	-282.00	20.08
	THAW SPACE	S	28-29	145.3	1453	66.32	-274.95	4.25
	DAIRY RM SH	S	27	130.1	1136	66.11	-283.46	4.26
	FRUITS, VEG SI	P	27,28	192.2	1645	66.20	-281.91	-9.67
	GARBAGE	P	28-29	110.8	1349	67.26	-273.78	-39.97
	SLOP CHEST DV	P	36	75.0	563	65.59	-218.98	-46.03
	CREW BAGGAGE DW	P	70	93.6	908	69.51	60.17	-49.50
	BOSN STORES DT	S	9-22	454.1	6012	66.96	-337.86	22.50
	STEWARDS SD	S	22-23	105.1	1785	67.93	-322.15	30.35
	DRY SJ	P	26	223.7	2259	66.33	-283.60	-20.05
	ENGINEERS (CEB)	S	71	53.1	510	69.45	63.32	49.40
	ELECT STORES & ELEV MAINT (ED)	S	104	217.0	2123	72.26	331.79	44.34
	DIESEL SPARES (EC)	P	81	70.8	701	70.53	154.02	-43.12
MAIN	CHAIN LKR	℄	23	126.0	2545	49.48	-318.00	℄
	ROPE (DX)	℄	20	129.5	1334	55.12	-330.30	℄
	(DAC)	P	51	139.2	1434	57.51	-94.18	-47.57
	(DAB)	S	51	139.2	1434	57.51	-94.18	47.57
	(DAE)	P	89	99.4	964	60.80	214.47	-47.84
	(DAD)	S	89	87.4	845	60.80	215.20	47.62
	(DAG)	P	111	108.8	1017	62.51	377.58	-49.22
	(DAF)	S	111	108.8	1017	62.51	377.58	49.22
	(DY)	S	42	83.6	962	57.36	-163.76	47.86
	LINEN ST	P	70	41.04	308	57.69	63.97	-49.55
	STEWARDS (SR)	P	70	44.70	336	57.69	56.44	-49.55
	OFFICERS BAGGAGE (DZ)	S	46	70.7	708	57.10	-130.30	47.32
	SLOP CHEST STORES (DAA)	P	46	70.7	708	57.10	-130.30	-47.32
	ENGRS PAINT & KEROSENE RM	P	81	58.0	557	59.64	154.77	-47.68
TWEEN	SPARE PTS STOW.	S	22-28	1061.6	12204	45.35	-298.60	9.16
	ELECT STORES & MAINT	S	27-28	223.2	2918	45.95	-284.89	23.76
	ENGINEERS STORES	℄	28-34	1670.0	18967	45.76	-253.24	℄
LOWER	ENGINEERS STORES	℄	25-28	593.0	7396	34.91	-293.02	℄

S29-01-01 D 2

BARGE CARGO CENTERS

DECK	BARGE NO.		CENTER OF GRAVITY ABOVE BL	CENTER OF GRAVITY FROM ⋈
LOWER	1	P/S	40.37	-178.75
	2		40.98	-81.81
	3		41.96	15.69
	4		42.93	113.18
	5		43.91	210.69
	6		44.88	308.19
MAIN	1	P/S	61.51	-179.31
	2		62.48	-81.81
	3		63.46	15.69
	4		64.43	113.18
	5		65.41	210.69
	6		66.38	308.19
UPPER	1A	P/S	82.04	-276.81
	1		83.01	-179.31
	2		83.98	-81.81
	3		84.96	15.69
	4		85.93	113.18
	5		86.91	210.69
	6		87.88	308.19

STANDARD BARGE BALE CUBIC = 39,170 CU FT
BARGE NO. 1 ON LOWER DK CUBIC = 38,690 CU FT
TOTAL BALE CUBIC ALL BARGES = 1,487,500 CU FT

CARGO CAPACITIES
WITHOUT BARGES
(BALE CUBIC BELOW DECK GIRDERS)

DECK	CENTER OF GRAVITY ABV BL	CENTER OF GRAVITY FROM FP	C.F. BALE
LOWER	42.29	440.27	852,105
MAIN	62.77	438.96	856,078
		TOTAL	1,708,183

RESERVATIONS

B4 1. ~~PLIMSOL MARKS PENDING LOAD LINE ASSIGNMENT.~~
B8 2. ~~D.W. CARRYING CAPACITY (IN TABLE) PENDING INCLINE TEST.~~
B2 3. ~~BARGE TOP DETAILS (ZONE 30 SECT. A-A) FOR OVERHEAD CLEARANCES.~~
B7 4. ~~TONNAGE TABLE PENDING RECEIPT OF TONNAGE CERTIFICATES.~~
B2 5. ~~BALE CUBIC FIGURES, IN TABLE OF BARGE CARGO CENTERS, PENDING BARGE DEVELOPMENT.~~

REVISIONS

ZONE	LTR	DESCRIPTION	BY	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
7G	B	4. PLIMSOLL & TONNAGE MARKS ADDED, RELEASES RES #1.	LH	3/31/72	F.K.R.	↵	↵	31 MAR 1972	WGH
VARIOUS		5. REVISED TABLES FOR SALT WATER BALLAST, LUBE OIL, FRESH WATER, DIESEL OIL & FUEL OIL TO SUIT DWG #30210-03X1, BOOKLET OF TANK SOUNDING TABLES.							
9A		6. IN ROLL STABILIZER TABLE OPR LVL CHGD FROM 18'-0" WL TO 20'-0" WL, GALLONS REV FROM 197,206 TO 221,256 & VCG REV FROM 11.67' TO 12.48' ABL, TO SUIT DWG #30210-03X1.							
3B		7. PANAMA & SUEZ GROSS & NET TONNAGES ADDED RELEASES RES #4.							
8,4G		8. SCALE, TOTAL DEAD WEIGHT ADDED & IN PRINCIPAL CHARACTERISTICS DEAD WEIGHT ADDED, RES #2 RELEASED, TO SUIT U.S.C.G. LTR 5940/GENERAL DYNAMICS 18-2, 21 MARCH 1972. THIS RELEASES ANDC-S-0650 IN FULL.							
3D		9. GEN NOTE #3 REVISED TO CLARIFY. NOTE #5 DATE ADDED.							
3-D 4-F 8-D	C	1. DEADWEIGHT SCALE & GENERAL NOTE #5 REVISED TO REFLECT ALMERIA LYKES DEADWEIGHT SURVEY.	JW	8/23/72	McC	↵	↵	24 AUG 1972	WGH
2-C	D	1. ADDED TO TABLE OF TONNAGES, GROSS & NET TONS FOR UNITED STATES, PANAMA, & SUEZ.	AWO	2/14/73	F.K.R.	↵	↵	2/15 73	AHS

REVISIONS

ZONE	LTR	DESCRIPTION	BY	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
VARIOUS	A	1. REVISED TABLES, CORRECTED OR ADDED COMMENTS AS PER PLAN APPROVAL BY J.J. HENRY LTR FILE: 5589/S29/JUM-64-71 OF MARCH 22, 1971, & MARAD LTR OF APRIL 26, '71 TO J.J. HENRY.	LH	6/4/71	F.K.R.	↵	↵	10 JUN 1971	WGH
3C 4C 30F	B	1. ADDED OFFICIAL NO. & CALL LETTERS TO SHIP COLUMN. 2. IN BARGE TABLE CU FT REVISED, RELEASES RES #5. SECT A-A IN ZONE 30 REVISED, RELEASES RES #3. BOTH PART OF ANDC-S-0650.							
4G		3. IN PRINCIPAL CHARACTERISTICS TABLE LG OA (ACTUAL) REVISED FROM 873'-9" TO 875'-11¼". LG BET. PERP REVISED TO ABS & FROM 719'-10¾" TO 824'-1⅞". DEPTH TO UPPER DK REVISED TO MAIN DK & FROM 74'-9⅝" TO 53'-7¾", DRAFT SCANT FROM 39'-0" TO 39'-0⅛" MOLDED, ADDED MIDSHIP 1'-7" AFT FR 67 (ABS), TO SUIT ABS LTR #T-8-2 OF NOV. 19, 1971.							

REVISIONS TO	O	A	B	C
		6/28/71	3/31/72	9/3/72
LYKES	1	1	1	1
M.A. (WASH)	2	1	1	1
M.A. (YARD)	1	1	1	1
J.J. HENRY (YARD)	1	1	1	1
J.J. HENRY (HOME)	3	2	2	2
ABS	1	1	1	1
USCG	6	1	1	1
USPHS	—	—	—	—
871 Chief Draftsman	3	5	5	4
872	1	—	—	—
873	—	—	—	—
874	—	—	—	—
875	—	—	—	—
876	1	—	—	—
LM BLDG 108		1	1	1
866			1	1
TOTAL NRO'S FS	20			
TOTAL NRO'S HS	—	14	15	14
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	6-28-71	800		4
	B	4-3-72	820		5
	C	9-1-72	826		12
			829		
			830		7
			841		
			842		
			843		1
			844		5
			899		
			LIBRARY		3
			828		1
			835		1
					1
			TOTAL		39

GENERAL NOTES

1. TANK CAPACITIES ARE THE MOLDED VOLUMES OF THE SPACE LESS VOLUMES OF SUMPS, WELLS, TRUNKS, INTERNAL STRUCTURE & PIPING.
2. CAPACITIES OF REFRIGERATED SPACES ARE TO INSIDE OF SHEATHING WITH DEDUCTIONS FOR COILS, BATTENS, DUCTS & GRATING.
3. VERTICAL CENTERS ARE REFERRED TO MOLDED BASELINE, LONGITUDINAL CENTERS ARE REFERRED TO MIDSHIPS (STATION 10) 3'-6" FWD FR 63 (AFT IS +, FWD IS −).
4. THE FOLLOWING EQUIVALENTS WERE USED IN DETERMINING DEADWEIGHT CAPACITIES:

SEA WATER — — — 35.00 FT³/TON
FRESH WATER — — — 36.00 FT³/TON
FUEL OIL — — — 37.23 FT³/TON
LUBE OIL — — — 39.00 FT³/TON
DIESEL OIL — — — 43.00 FT³/TON
ROLL STAB. LIQUID (NSFO) — — — 38.00 FT³/TON

5. THE DEADWEIGHT SCALE IS BASED ON AVERAGE DATA OBTAINED FROM THE INCLINE EXPERIMENT ON DR LYKES (1-29-72) AND THE DEADWEIGHT SURVEY ON ALMERIA LYKES (8-4-72) BOTH OF WHICH WERE PERFORMED AT THE QUINCY SHIPBUILDING DIVISION.

NAME		DOCTOR LYKES	ALMERIA LYKES	TILLIE LYKES
YARD HULL NO.		18	19	20
M.A. HULL NO.		241	242	243
OFFICIAL NO.		536 500	536 671	536 672
CALL LETTERS		KHNB	WDOU	WDOP
TONNAGES				
UNITED STATES	GROSS	21,667.75	21,667.75	21,667.75
	NET	12,128.00	12,128.00	12,128.00
PANAMA	GROSS	45,594.75	45,594.75	45,594.75
	NET	25,387.40	25,387.40	25,387.40
SUEZ	GROSS	45,661.13	45,661.13	45,661.13
	NET	36,402.34	36,402.34	36,402.34

REFERENCES

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
1	SECTION 100-Z LINE 20-29 OF SPECIFICATIONS	—	—

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

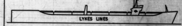
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G
NO MATL							

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
C 12-30-72

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30210-01X1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR HAKULIN
SUPV
ENGR RWB RGE

CAPACITY PLAN

APPROVED DATE F.C. Ray 2/14/71
FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED
ABS NONE
USCG NONE
USPHS NONE

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	S29-01-01	D

SCALE 3/32"=1'-0" & AS NOTED SHEET 1 OF 1

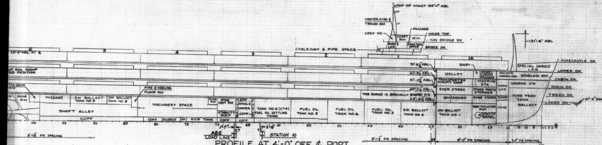
MICROFILMED

AREA = SQ FT

DWG. NO. 30210-01X1

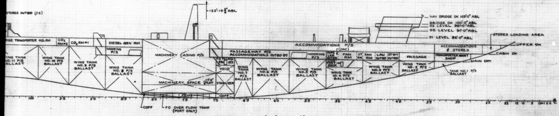
M.A. DWG NO. S29-01-01

Q div DWG NO. 30210-01X1


TOP OF MAST 155'-0" ABL
MASTER GYRO & TRANSM RM
CREW WC
PASSAGE
HOUSE TOP
CHART RM
WH
NAV BRIDGE DK
BOSN LKR
MASTERS OFFICE
BRIDGE DK
121'-6" ABL
CABLEWAY & PIPE SPACE
6
5
4
3
2
1
1A
18'-6" ABL AT ℄
UP RAIL RAMP
ED POSITION
72'-6 1/16" ABL
DAIRY
SPECIAL CARGO LKR
FORECASTLE DK
61'-9 1/16" ABL
GALLEY
STORES LOADING PASSAGE
ANCHOR HANDLING
WINDLASS RM
UPPER DK
51'-0 1/16" ABL
TRANSPORTER MAINT SHOP
MOORING STA
CABIN DK
MOORING STA
40'-3 1/16" ABL
ENGR STORES
SPARE PARTS STOWAGE
CHAIN LKR
MAIN DK
THIS BARGE IS SPECIALLY SHAPED P/S
29'-6 1/16" ABL
UNASSIGNED
ENGR STORES
SUMP
FORE PEAK TANK BALLAST
TWEEN DK
LOWER DK
31'-0" DWL
STRG GEAR RM
GEAR RM
PASSAGE
SW BALLAST TANK NO.9
SW BALLAST TANK NO.8
FIRE & HEELING PUMP RM
MACHINERY SPACE
FO FILL RM
STAB CONT RM
COFF
POTABLE WATER
COFF
STABILITY DUCT
TANK NO.6 (CTR) FUEL OIL SETTLING TANK
FUEL OIL TANK NO. 5
FUEL OIL TANK NO.4
FUEL OIL TANK NO.3
SW BALLAST TANK NO.2
SW BALLAST TANK NO.1
BOW THRUSTER RM
THRUSTER TUNNEL
VOID
SHAFT ALLEY
COFF
COFF
SLUDGE
COFF
RFW TANK
COFF
COFF
100
95
90
85
80
75
70
1'-7"
67
65
63
3'-6"
60
55
50
45
40
35
30
25
22
15
10
5
0ACEDB
8'-1 1/2" FR SPACING
ABS LOAD LINE
STATION 10
8'-1 1/2" FR SPACING
46
8'-0" FR SPACING
24" FR SPACING
FP

PROFILE AT 4'-0" OFF ℄ PORT

LOOKING TO PORT


123'-10 3/4" ABL
STORES OUTBD (DS)
NAV BRIDGE DK 105'-0" ABL
BRIDGE DK 100'-0" ABL
03 LEVEL 96'-0" ABL
02 LEVEL 91'-0" ABL
01 LEVEL 82'-0" ABL
STORES LOADING AREA
UPPER DK
CABIN DK
MAIN DK
RGE TRANSPORTER MG RM
CO2 RM #2
CO2 RM #1
DIESEL GEN RM
MOORING P/S
MACHINERY CASING P/S
ACCOMMODATIONS P/S
(OAC)
PASSAGEWAY P/S
ACCOMMODATIONS OUTBD (P)
MOORING P/S
ROPE LKR OUTBD
FAN RM
ST RM
FAN RM
LAU OUTBD
STWY OUTBD
PASSAGE
ACCOMMODATIONS & STORES
TRANSPORTER MAINT SHOP
FO FILLING STA P/S
VOID
WING TANK NO.11 P/S BALLAST
WING TANK NO.10 P/S BALLAST
WING TANK NO.9 P/S BALLAST
WING TANK NO.8 P/S BALLAST
WING TANK NO.7 P/S BALLAST
WING TANK NO.6 P/S BALLAST
WING TANK NO.5 P/S BALLAST
PORT DOOR
WING TANK NO.4 P/S BALLAST
WING TANK NO.3 P/S BALLAST
WING TANK NO.2 P/S BALLAST
TANK NO.1 P/S BALLAST
MACHINERY SPACE
17'-0" FLAT
STABILIZER
COFF
COFF
COFF
FO OVER FLOW TANK (PORT ONLY)
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
22
15
10
5
0ACEG
℄

PROFILE 41'-0" OFF ℄ PORT

LOOKING TO PORT

TRIM TABLE ⊗ BARGES

308.19	5 210.69	4 113.18	3 15.69	2 81.81	1 179.31	1A 276.81	FT FWD ⊗	
-1.253	-0.528	+0.197	+0.922	+1.646	+2.371	+3.096	FWD	28'-0" DRAFT
+2.100	+1.554	+1.008	+0.461	-0.085	-0.631	-1.177	AFT	
-0.878	-0.311	+0.257	+0.824	+1.391	+1.959	+2.526	FWD	36'-0" DRAFT
+1.691	+1.272	+0.852	+0.433	+0.014	-0.406	-0.825	AFT	

. THE TRIM TABLES ABOVE & BELOW SHOWS CORRECTIONS IN INCHES TO DRAFT FORWARD AND AFT FOR EACH 100 TONS LOADED ANY DISTANCE FROM MIDSHIP.

2. THE CORRECTIONS HAVE BEEN COMPUTED FOR THE TWO DRAFTS TO ALLOW INTERPOLATION. IN PRACTICE IT WILL BE ACCURATE ENOUGH TO USE THE TABLE NEAREST THE SHIPS DRAFT.

3. WHEN DISCHARGING, USE THE TABLE AS FOR LOADING AND REVERSE THE PLUS AND MINUS SIGNS.

4. USE TABLE ABOVE FOR BARGE LOADINGS AND TABLE BELOW FOR TANK LOADINGS.

PROBLEM ÷ FIND THE CHANGE IN DRAFT READINGS AFTER LOADING A BARGE WITH A GROSS WEIGHT OF 1000 TONS INTO POSITION 1 (FWD LIMIT 226.57' FWD ⊗) ON THE MAIN DECK.

SOLUTION ÷ INITIAL DRAFT FWD 28'-0" AFT 28'-0"
CORRECTION (10 X TABLE VALUE) + 23.71" − 6.31"
NEW DRAFT 30'-0" 27'-6"

TRIM TABLE ⊗ TANKS

NO.11	NO.10	NO.9	NO.8	MACHINERY SPACE AFT.	MACHINERY SPACE FWD	STAB.	NO.7	NO.6	NO.5	NO.4	NO.3	NO.2	NO.1	STORES	VOID	FORE PEAK	FT FWD ⊗	
-1.313	-0.928	-0.603	-0.247	+0.108	+0.464	+0.731	+0.908	+1.175	+1.530	+1.886	+2.241	+2.588	+2.933	+3.225	+3.400	+3.669	FWD	28'-0" DRAFT
+2.146	+1.856	+1.610	+1.342	+1.174	+0.806	+0.605	+0.471	+0.270	+0.003	-0.265	-0.533	-0.795	-1.055	-1.275	-1.407	-1.610	AFT	
-0.926	-0.642	-0.369	-0.091	+0.187	+0.466	+0.675	+0.814	+1.022	+1.301	+1.579	+1.857	+2.129	+2.399	+2.627	+2.764	+2.976	FWD	36'-0" DRAFT
+1.726	+1.503	+1.315	+1.109	+0.904	+0.698	+0.543	+0.441	+0.286	+0.081	-0.125	-0.330	-0.531	-0.731	-0.900	-1.001	-1.157	AFT	

CAP ONS	VCG(98%) ABV ℄	LCG A+ ⊗ F-	TCG P- ℄ S+
.87	15.68	-158.70	℄
.38	15.24	-110.05	℄
.94	15.32	-61.48	℄
.97	15.55	-12.74	℄
.98	3.33	128.19	-30.97
.23	2.90	121.10	.36
.37	14.92	-74.85	-0.65

FRESH WATER

TANK		FRAME	100% VOLUME CU FT	100% VOLUME GALLONS	100% CAP L TONS	VCG ABV ℄	LCG A+ ⊗ F-	TCG P- ℄ S+
POT. WATER	℄	64-67	13094.56	97947	367.41	16.98	23.92	℄
RES FEED	P	70-75	4703.60	35183	130.53	3.00	80.69	-9.70
RES FEED	S	70-75	4703.60	35183	130.53	3.00	80.69	9.70
DISTILLED	P	80-82	2460.71	18406	68.29	44.05	149.87	-42.92
TOTAL FRESH WATER			24962.47	186719	696.76	14.39	57.55	-4.21

DIESEL OIL

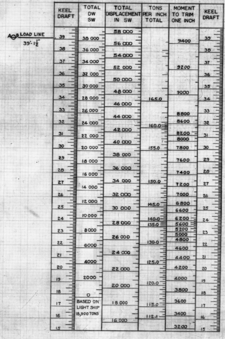
TANK		FRAME	100% VOLUME CU FT	98% VOLUME GALLONS	98% CAP L TONS	VCG(98%) ABV ℄	LCG A+ ⊗ F-	TCG P- ℄ S+
DIESEL OIL	P	FWD 88	166.46	1220	3.78	70.18	204.58	-42.92

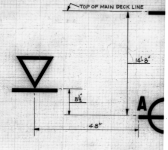
LUBE OIL

TANK		FRAME	100% VOLUME CU FT	98% VOLUME GALLONS	98% CAP L TONS	VCG(98%) ABV ℄	LCG A+ ⊗ F-	TCG P- ℄ S+
LO STOR	S	79-80	233.32	1710	5.87	59.88	137.67	49.53
LO SET.	S	79-80	165.21	1211	4.15	60.04	136.80	41.17
TOTAL LUBE OIL			398.53	2921	10.02	59.95	137.31	46.06

SEWAGE

TANK		FRAME	100% VOLUME CU FT	100% VOLUME GALLONS	100% CAP L TONS	VCG ABV ℄	LCG A+ ⊗ F-	TCG P- ℄ S+
HOLD TK	P	46-52	8647.19	64681	247.06	21.97	-108.94	-24.21
HOLD TK	S	46-52	8647.19	64681	247.06	21.97	-108.94	24.21
TOTAL SEWAGE			17294.38	129362	494.12	21.97	-108.94	℄




TOP OF MAIN DECK LINE
14'-8"
8 1/2"
A
B
48"

PLIMSOLL & TONNAGE MARKS

SALT WATER BALLAST

TANK		FRAME	100% VOLUME CU FT	100% VOLUME GALLONS	100% CAP L TONS	VCG ABV ℄	LCG A+ ⊗ F-	TCG P- ℄ S+
FORE PEAK	℄	C-22	23622.91	176699	674.99	36.91	-342.27	℄
1	P	28-34	20232.99	151343	578.13	19.06	-251.96	-9.52
1	S	28-34	20321.70	152006	580.66	19.02	-251.96	9.49
2	℄	34-40	45235.70	338363	1292.55	16.97	-206.34	℄
2	P	34-40	14190.79	106147	405.48	31.81	-203.69	-32.63
2	S	34-40	14107.60	105525	403.11	31.93	-203.79	32.82
3	P	40-46	27537.19	205978	786.84	29.44	-156.87	-34.00
3	S	40-46	27416.43	205075	783.39	29.53	-156.94	34.15
4	P	46-52	24578.86	183850	702.31	22.87	-108.84	-36.07
4	S	46-52	24458.10	182947	698.86	22.94	-108.82	36.24
5	P	52-58	51265.86	383469	1464.85	24.99	-60.70	-35.95
5	S	52-58	50994.60	381440	1457.10	25.07	-60.75	36.12
6	P	58-64	59308.36	443627	1694.66	23.71	-12.25	-36.87
6	S	58-64	58940.51	440875	1684.14	23.72	-12.30	37.02
7	P	64-67	31645.83	236711	904.24	23.29	23.88	-37.58
7	S	64-67	31645.83	236711	904.24	23.29	23.88	37.58
8	℄	84-88	30870.31	230910	882.08	19.63	190.21	℄
8	P	82-88	58147.72	434945	1661.49	26.50	181.77	-37.28
8	S	82-88	57906.20	433138	1654.51	26.58	181.75	37.44
9	℄	88-94	40948.38	306294	1170.04	21.93	230.14	℄
9	P	88-94	55676.39	416459	1590.87	32.96	230.98	-38.41
9	S	88-94	55434.87	414653	1583.97	33.06	231.00	38.58
10	P	94-99	40600.55	303692	1160.10	38.09	274.96	-39.71
10	S	94-99	40326.42	301642	1152.27	38.20	275.07	39.98
11	P	99-107	45431.66	339829	1298.15	41.80	323.55	-41.80
11	S	99-107	44911.41	335937	1283.28	42.02	323.83	42.28
12	P	109-125	39199.66	293213	1120.07	40.87	420.82	-46.76
12	S	109-125	39199.66	293213	1120.07	40.87	420.82	46.76
TOTAL SW BALLAST			1074156.49	8034691	30692.45	29.07	86.61	-0.01

ROLL STABILIZER

TANK		FRAME	100% VOLUME 32.41' WL CU FT	OPR LVL VOL 20'-0" WL GALLONS	OPR LVL CAP L TONS	VCG OP LVL ABV ℄	LCG OP LVL A+ ⊗ F-	TCG OP LVL P- ℄ S+
ROLL STAB.	℄	67-70	43409.02	221,256	778.65	12.48	47.64	℄

STORES

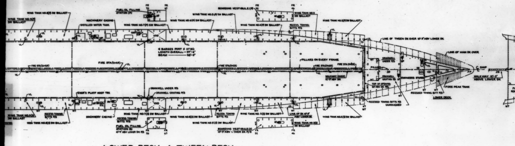
DECK	COMPARTMENT		FRAME	FLOOR AREA SQ FT	VOL CU FT	VC ABV
BRIDGE	LINEN LKR SA	S	40	27.4	206	103
	BATTERY	S	41	14.3	123	104
	BOSN	℄	41	78.89	569	103
02 LEVEL	BONDED STORES DE	P	43	61.74	396	93
	NAVIGATION LKR DD	S	43	61.74	396	93
01 LEVEL	ELECTRONIC SPARES DF	S	39-41	195.4	1804	86
	BOSN STORES DG	S	43	91.5	661	85
	STEWARDS SC	P	43	91.5	661	85
UPPER	SPECIAL CARGO LKR	℄	0-19	2080	24071	76
	BOSN LKR DJ	S	40	58.6	504	76
	DM	P	40	105.2	905	76
	DO	S	78	50.4	504	80
	DP	P	79	52.2	522	80
	DQ	S	105	78.5	785	82
	DR	P	105	124.0	1240	82
	BOSN STORES DS	P	107	66.44	664	82
	OIL SKIN LKR DN	P	43	20.92	180	76
	DL	S	43	20.92	180	76
	EMERG GEAR DK	S	41	35.2	303	76
CABIN	PAINT LKR (DO)	P	0-15	196.5	2769	67
	SOILED LINEN SE	S	27	109.8	823	64
	CLEAN SF	S	28	126.0	945	65
	LINEN (SM)	S	35-36	45.4	341	65
	(SP)	P	57	49.1	368	67
	BULB (EA)	P	57	21.0	158	67
	SOAP SL	P	34	42.0	305	65
	MEAT, FISH, FROZEN FOOD SG	S	27, 28	275.0	2401	66
	THAW SPACE	S	28-29	145.3	1453	66
	DAIRY RM SH	S	27	130.1	1136	66
	FRUITS, VEG SI	P	27, 28	192.2	1645	66
	GARBAGE	P	28-29	110.8	1349	67
	SLOP CHEST DV	P	36	75.0	563	65
	CREW BAGGAGE DW	P	70	93.6	908	69
	BOSN STORES DT	S	9-22	454.1	6012	66
	STEWARDS SD	S	22-23	105.1	1785	67
	DRY SJ	P	26	223.7	2259	66
	ENGINEERS (CEB)	S	71	53.1	510	69
	ELECT STORES & ELEV MAINT (ED)	S	104	217.0	2123	72
	DIESEL SPARES (EC)	P	81	70.8	701	70
MAIN	CHAIN LKR	℄	23	126.0	2545	49
	ROPE (DX)	℄	20	129.5	1334	55
	(DAC)	P	51	139.2	1434	57
	(DAB)	S	51	139.2	1434	57
	(DAE)	P	89	99.4	964	60
	(DAD)	S	89	87.4	845	60
	(DAG)	P	111	108.8	1017	62
	(DAF)	S	111	108.8	1017	62
	(DY)	S	42	83.6	962	57
	LINEN ST	P	70	41.04	308	57
	STEWARDS (SR)	P	70	44.70	336	57
	OFFICERS BAGGAGE (DZ)	S	46	70.7	708	57
	SLOP CHEST STORES (DAA)	P	46	70.7	708	57
	ENGRS PAINT & KEROSENE RM	P	81	58.0	557	59
TWEEN	SPARE PTS STOW.	S	22-28	1061.6	12204	45
	ELECT STORES & MAINT	S	27-28	223.2	2918	45
	ENGINEERS STORES	℄	28-34	1670.0	18967	45
LOWER	ENGINEERS STORES	℄	25-28	593.0	7396	34

S29-01-01 D 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. S29-01-01 GD NO. 30210-01x1 FRAME 1 ② 3 4

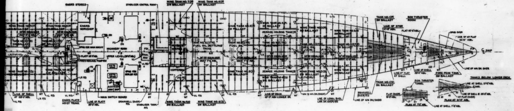
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. S29-01-01 GD NO. 30210-01x1 FRAME 1 2 ③ 4

20 19 18 17 16 15 14 13

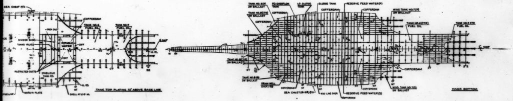


WING TANK NO.6(P) SW BALLAST
MACHINERY CASING
DISTILLED WATER TANK
FUEL OIL FILLING STATION (P)
BOARDING VESTIBULE (P)
6 BARGES PORT & STBD
LENGTH OVERALL — 97'-6"
BEAM — 35'-0"
FIRE STA (OVER)
PILLARS ON EVERY FRAME
LINE OF TWEEN DK OVER 10'-9" ABV LOWER DK
ENGINEER'S STORES
BOW THRUSTER CONTROL RM
CHAIN LKR
FORE PEAK TANK
WALKWAY 10'-9" ABOVE LOWER DK
ELECTRICAL STORES & MAINT SHOP
TWEEN DECK
LOWER DECK

LOWER DECK & TWEEN DECK

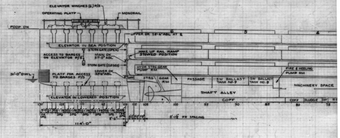


TANKS BELOW LOWER DECK

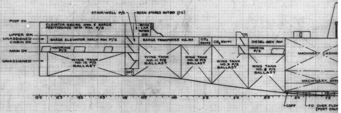


TANK TOP PLATING 7'-0" ABOVE BASE LINE
INNER BOTTOM

TOP OF INNER BOTTOM
&INNER BOTTOM



ELEVATOR WINCHES (6) P/S
OPERATING PLATF
MONORAIL
POOP DK
UPPER DK 38'-6" ABL AT ℄
ELEVATOR IN SEA POSITION
STERN GATE (OPEN)
ACCESS TO BARGES ON ELEVATOR P/S
MAIN DK 57'-0" ABL
MAKE UP RAIL RAMP STOWED POSITION
STERN GATE (CLOSED)
HYDR STRG GEAR PUMP RM
LOWER DK 33'-6" ABL
FIRE & HEELING PUMP RM
31'-0" DWL
PLATF FOR ACCESS TO BARGES P/S
STRG GEAR RM
PASSAGE
SW BALLAST TANK NO.9
SW BALLAST TANK NO.8
MACHINERY SPACE
SHAFT ALLEY
ELEVATOR IN LOWERED POSITION
COFF
SLUDGE
114'-0"
8'-1½" FR SPACING



STAIRWELL P/S
BOSN STORES OUTBD (DS)
POOP DK
ELEVATOR SECRG STN & BARGE POSITIONING WN RM P/S
UPPER DK
UNASSIGNED
CABIN DK
BARGE ELEVATOR MACH RM P/S
BARGE TRANSPORTER MG RM
CO₂ RM #2
CO₂ RM #1
DIESEL GEN RM
MAIN DK
MOORING P/S
UNASSIGNED
WING TANK NO.12 P/S BALLAST
WING TANK NO.11 P/S BALLAST
WING TANK NO.10 P/S BALLAST
WING TANK NO.9 P/S BALLAST
WING TANK NO.8 P/S BALLAST
MACHINERY CASING
MACHINERY SPACE
COFF
FO OVER FLOW (PORT ONLY)

FT AFT ⌀		427.00		6 308.19	5 210.69	4 113.18
28'-0" DRAFT	FWD	− 1.994		− 1.253	− 0.528	+ 0.197
	AFT	+ 2.659		+ 2.100	+ 1.554	+ 1.008
36'-0" DRAFT	FWD	− 1.459		− 0.878	− 0.311	+ 0.257
	AFT	+ 2.120		+ 1.691	+ 1.272	+ 0.852

TRIM TABLE NOTES ÷

1. THE TRIM TABLES ABOVE & BELOW SHOWS CORRECTIONS IN INCHES TO DRAFT FORWARD AND AFT FOR EACH 100 TONS LOADED ANY DISTANCE FROM MIDSHIP.

2. THE
TO A
ENO

4. USE TABLE ABOVE FOR BARGE LO

PROBLEM ÷ FIND THE CHANGE IN DRAFT
A BARGE WITH A GROSS
POSITION 1 (FWD LIMIT 22
DECK.

FT AFT ⌀		NO.12	NO.11	NO.10	NO.9	NO.8	MACHINERY SPACE AFT.	MACHI SPACE
28'-0" DRAFT	FWD	− 1.994	− 1.313	− 0.928	− 0.603	− 0.247	+ 0.108	+ 0.
	AFT	+ 2.659	+ 2.146	+ 1.856	+ 1.610	+ 1.342	+ 1.174	+ 0.
36'-0" DRAFT	FWD	− 1.459	− 0.926	− 0.642	− 0.369	− 0.091	+ 0.187	+ 0.
	AFT	+ 2.120	+ 1.726	+ 1.503	+ 1.315	+ 1.109	+ 0.904	+ 0.

FUEL OIL

TANK		FRAME	100% VOLUME CU FT	98% VOLUME BARRELS	98% CAP L. TONS	VCG(98%) ABV B	LCG A + ⌀ F −	TCG P − ℄ S +
3	℄	40-46	53384.49	9313.6	1404.87	15.68	-158.70	℄
4	℄	46-52	56937.76	9933.5	1498.38	15.24	-110.05	℄
5	℄	52-58	58364.82	10182.5	1535.94	15.32	- 61.48	℄
6	℄	58-64	59164.21	10322.0	1556.97	15.55	- 12.74	℄
OVERFLOW	P	76-81	5091.21	888.2	133.98	3.33	128.19	-30.97
SLUDGE	℄	76-79	5062.73	883.3	133.23	2.90	121.10	.36
TOTAL FUEL OIL			238005.22	41523.1	6263.37	14.92	- 74.85	- 0.65

FRESH

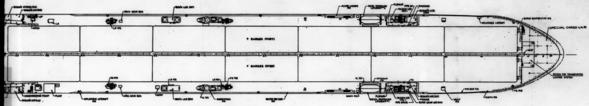
TANK		FRAME	100% VOLUME CU FT
POT. WATER	℄	64-67	13094.56
RES FEED	P	70-75	4703.60
RES FEED	S	70-75	4703.60
DISTILLED	P	80-82	2460.71
TOTAL FRESH WATER			24962.47

DIE

TANK		FRAME	100% VOLUME CU FT	98 G
DIESEL OIL	P	FWD 88	166.46	

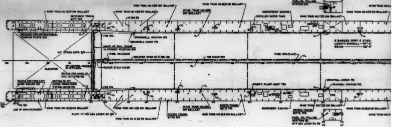
S29-01-01 . D 3

26 25 24 23 22 21 20 19



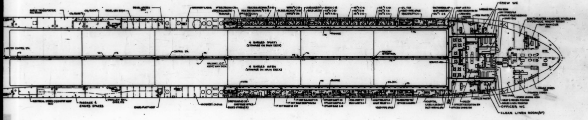
7 BARGES (PORT)
7 BARGES (STBD)
SPECIAL CARGO LKR
INFLATABLE LIFERAFT

UPPER DECK



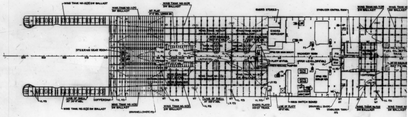
ELEVATOR
RUDDER STOCK COVER
MACHINERY CASING
FIRE STA

LOWER DECK & TWEEN D



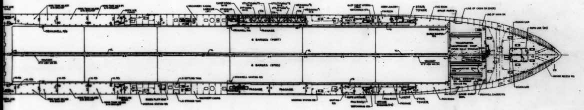
CREW WC
6 BARGES (PORT) (STOWAGE ON MAIN DECK)
6 BARGES (STBD) (STOWAGE ON MAIN DECK)
CONTROL STA
PASSAGE & ENGRS SPACES
OFFICER WC
CLEAN LINEN ROOM (SF)

CABIN DECK



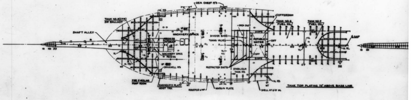
STEERING GEAR ROOM
ENGRS STORES
ENGRS WORKSHOP

TANKS BELOW LOWER D



6 BARGES (PORT)
6 BARGES (STBD)
STAIR TOWER
CHAIN LKR

MAIN DECK



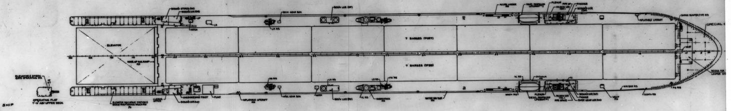
SEA CHEST
SHAFT ALLEY
COFFERDAM
TANK TOP PLATING 72" ABOVE BASE LINE

TOP OF INNER BOTTOM
&INNER BOTTOM

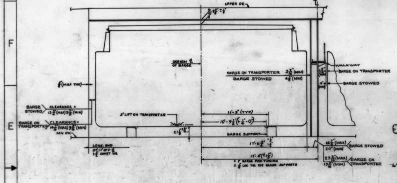
S29-01-01 | D | 4

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. S29-01-01 GD NO. 30210-01x1 FRAME 1 2 3 ④

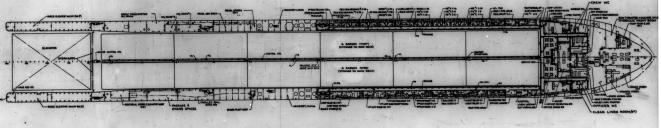
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. S29-01-01 GD NO. 30210-01×1 FRAME 1 2 3 4 ⑤


ELEVATOR
7 BARGES (PORT)
7 BARGES (STBD)
ELEVATOR & STERN GATE OPERATING STA
OPERATING FLAT 7'-6" ABV UPPER DECK
INFLATABLE LIFERAFT
SPECIAL C

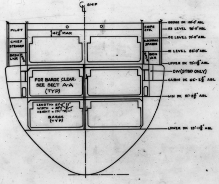
UPPER DECK


℄ SHIP
UPPER DK
$7\frac{3}{8}" \pm \frac{1}{8}"$
DESIGN ℄ OF BARGE
BARGE ON TRANSPORTER $3\frac{7}{16}"$ (MIN)
BARGE STOWED $4\frac{1}{8}"$ (MIN)
WALKWAY
$3\frac{5}{16}"$ (MIN)
BARGE ON TRANSPORTER
4" (MIN)
BARGE STOWED
$\frac{5}{8}"$ (MAX THK)
BARGE STOWED CLEARANCE = $13\frac{3}{4}"$ (MAX) $9\frac{7}{8}"$ (MIN)
BARGE ON TRANSPORTER CLEARANCE = $14\frac{7}{16}"$ (MAX) $9\frac{3}{16}"$ (MIN)
MN DK
3" LIFT ON TRANSPORTER
$21\frac{1}{8}"$
11'-3" (TYP)
$10'-9\frac{1}{2}" (+\frac{1}{4}"-0")$
BARGE SUPPORT
$17'-6\frac{3}{4}"$ $+\frac{1}{8}"$ $-\frac{1}{4}"$
$22\frac{7}{8}"$ (MAX)
20" (MIN)
BARGE STOWED
$19'-4" (\pm 1\frac{1}{8}")$
± 1" BARGE POSITIONING
± $\frac{1}{8}"$ LOC TOL FOR BARGE SUPPORTS
$23\frac{9}{16}"$ (MAX)
$17\frac{3}{16}"$ (MIN)
BARGE ON TRANSPORTER
LONG. BHD
37'-11" OFF ℄
± $\frac{1}{2}"$ CONST TOL

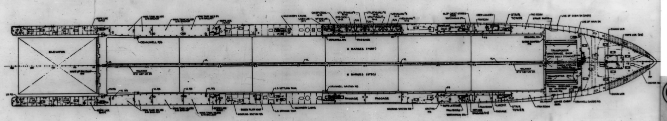
SECT A-A
LKG FWD
$\frac{1}{4}" = 1'-0"$


ELEVATOR
STERN GATE
6 BARGES (PORT) (STOWAGE ON MAIN DECK)
6 BARGES (STBD) (STOWAGE ON MAIN DECK)
CREW WC
OFFICER WC
CLEAN LINEN ROOM (SF)
PASSAGE & ENGRS SPACES
TROLLEY RAIL

CABIN DECK


℄ SHIP
PILOT
CHIEF STEWARD
BOSN LKR
SHIPS OFF.
ELECTRONIC SPARES
BOSN LKR
$47\frac{1}{4}"$ MAX
BRIDGE DK 100'-0" ABL
03 LEVEL 96'-0" ABL
02 LEVEL 91'-0" ABL
01 LEVEL 82'-0" ABL
UPPER DK $72'-11\frac{5}{8}"$ ABL
DW (STBD ONLY)
CABIN DK $62'-2\frac{5}{8}"$ ABL
MN DK $51'-5\frac{5}{8}"$ ABL
LOWER DK $29'-11\frac{5}{8}"$ ABL
FOR BARGE CLEAR. SEE SECT A-A (TYP)
LENGTH = 97'-6" ±1"
WIDTH = 35'-0" +$\frac{0}{2}$, -1"
HEIGHT = 17'-1" +0, -1"
BARGE (TYP)

BHD 40
LKG FWD
$\frac{1}{16}" = 1'-0"$

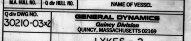

ELEVATOR
6 BARGES (PORT)
6 BARGES (STBD)
STAIR TOWER
PASSAGE
WALKWAY

MAIN DECK

S29-01-01 D

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
SEA BARGE CLIPPER



242	19	ALMERIA LYKES
M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL

Q div DWG NO. 30210-03x2

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

LYKES - 2
BOOKLET OF TANK
SOUNDING TABLES

ENGR SUPV W.R. Cluny
ENGR John T. Mora

APPROVED DATE R.G. Fowler FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	S-29-01-08	A

SCALE
SHEET A OF 113

1

MARAD DWG NO. S-29-01-08

REVISIONS	O	A	B	C
TO	8/16/72	9/1/72		
LYKES NEW ORL.	1	1		
M.A.(WASH)				
M.A.(YARD)				
J.J.HENRY(YARD)	1	1		
J.J.HENRY(HOME)	1	1		
ABS				
USCG				
USPHS				
LYKES(YARD)	1	1		
871	2	5		
872				
873				
874				
875				
876				
840		2		
TOTAL NRO'S FS	6	11		
TOTAL NRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
			800		
			820		
			826		
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIBRARY		
			TOTAL		

PAGE B
2

MARAD DWG. NO. S-29-01-08

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	PLAN APPROVED BY J.J. HENRY	9/1/72				1 SEPT 1972	

PAGE C
3

BOOKLET INDEX MARAD DWG. NO. S-29-01-08

	PAGE	FR.#
COVER SHEET	A	1
DISTRIBUTION SHEET	B	2
REVISION SHEET	C	3
BOOKLET INDEX	D	4
GENERAL NOTES	E	5
INSTRUCTIONS FOR USE OF TRIM CORRECTION FACTOR	F	6
SUMMARY OF TANK CAPACITIES	G,H	7,8
EVEN KEEL INDEX	J,K	9,10

PAGE D
4

GENERAL NOTES

1. ALL SOUNDING TABLES AND ULLAGE TABLES WERE DEVELOPED FROM A SURVEY OF THE SOUNDING TUBES AS INSTALLED IN THE SHIP.
2. CONVERSION FACTORS -
   - (A) ONE TON EQUALS 2240 POUNDS
   - (B) ONE BARREL EQUALS 42 GALLONS
   - (C) ONE TON MERCHANT BUNKER "C" EQUALS 278.5 GALLONS
   - (D) ONE TON NAVY SPECIAL FUEL OIL EQUALS 284.2 GALLONS
   - (E) ONE TON LUBE OIL EQUALS 291.4 GALLONS
   - (F) ONE TON DIESEL OIL EQUALS 322.0 GALLONS
   - (G) ONE TON SALT WATER EQUALS 261.8 GALLONS
   - (H) ONE TON FRESH WATER EQUALS 269.3 GALLONS
3. THE TRIM USED IN THESE TABLES IS BASED ON THE LENGTH BETWEEN DRAFT MARKS (FRAME 14 TO FRAME 107) 701.5 FEET.

MARAD DWG. NO. S-29-01-08

PAGE E
5

INSTRUCTIONS FOR USE OF TRIM CORRECTION FACTORS

1. TRIM CORRECTION FACTORS (TCF) ARE BASED ON A CONDITION OF ONE FOOT TRIM BY THE BOW. HENCE, FOR ANY CONDITION OF TRIM BY THE BOW NOTE THE FOLLOWING METHOD:

   (A) MULTIPLY THE TOTAL TRIM OF THE SHIP IN FEET TIMES THE TRIM CORRECTION FACTOR LISTED IN THE TABLE FOR THE FOOT IN WHICH THE OBSERVED SOUNDING FALLS.

   (B) USING SIGN OF TRIM CORRECTION FACTOR (POSITIVE UNLESS MINUS SIGN IS PRINTED) ADD OR SUBTRACT THE ABOVE PRODUCT TO THE TABULATED CAPACITY CORRESPONDING TO THE OBSERVED SOUNDING TO DETERMINE THE ACTUAL AMOUNT OF LIQUID IN THE TANK.

   EXAMPLE - TRIM BY THE BOW

   TANK 6 C.L.
   OBSERVED SOUNDING: 17'-9"
   OBSERVED TRIM: 5'-0" BY THE BOW

		BARRELS		TONS
FROM TABLE AT SOUNDING OF 17'-9"		5921		892.9
FACTOR X TRIM =	(11.4 X 5) =	+57	(1.7X5)=	+8.5
ACTUAL LIQUID IN TANK =		5978 BARRELS		901.4 LONG TONS

2. FOR TRIM BY THE STERN REVERSE THE SIGN OF THE TRIM CORRECTION FACTOR AND FOLLOW THE SAME PROCEDURE.

   EXAMPLE - TRIM BY THE STERN

   TANK 6 C.L.
   OBSERVED SOUNDING: 17'-9"
   OBSERVED TRIM: 10'-0" BY THE STERN

		BARRELS		TONS
FROM TABLE AT SOUNDING OF 17'-9"		5921		892.9
FACTOR X TRIM =	(-11.4 X 10)=	-114	(-1.7X10)=	-17.0
ACTUAL LIQUID IN TANK =		5807 BARRELS		875.9 LONG TONS

MARAD DWG. NO. S-29-01-08

PAGE F
6

SUMMARY

SALT WATER BALLAST

TANK	LOCATION (FRAME)	TONS S.W.	TONS F.W.
FOREPEAK	C-22	674.99	655.55
1-STBD	28-34	580.66	563.94
1-PORT	28-13	578.13	561.48
2-STBD	34-40	403.11	391.50
2-C.L.	34-40	1292.55	1255.33
2-PORT	34-40	405.48	393.81
3-STBD	40-46	783.39	760.83
3-PORT	40-46	786.84	764.18
4-STBD	46-52	698.86	678.73
4-PORT	46-52	702.31	682.08
5-STBD	52-58	1457.10	1415.14
5-PORT	52-58	1464.85	1422.67
6-STBD	58-64	1684.14	1635.65
6-PORT	58-64	1694.66	1645.86
7-STBD	64-67	904.24	878.20
7-PORT	64-67	904.24	878.20
8-STBD	82-88	1654.51	1606.87
8-C.L.	84-88	882.08	856.68
8-PORT	82-88	1661.49	1613.65
9-STBD	88-94	1583.97	1538.36
9-C.L.	88-94	1170.04	1136.35
9-PORT	88-94	1590.87	1545.06
10-STBD	94-99	1152.27	1119.09
10-PORT	94-99	1160.10	1126.70
11-STBD	99-107	1283.28	1246.33
11-PORT	99-107	1298.15	1260.77
12-STBD	109-128	1120.07	1087.82
12-PORT	109-128	1120.07	1087.82
TOTAL SALT WATER BALLAST		30692.45	29808.65

MARAD DWG. NO. S-29-01-08

PAGE G
7

FRESH WATER TANKS 100% CAPACITY

TANK	LOCATION	TONS FRESH WATER	GALLONS
DISTILLED WATER	80-82	68.29	18406.0
RESERVE FEEDWATER(P)	70-75	130.53	35183.0
RESERVE FEEDWATER(S)	70-75	130.53	35183.0
POTABLE WATER	64-67	367.41	97947.0
TOTAL FRESH WATER		696.76	186719

FUEL OIL TANKS, 98% CAPACITY

TANK	LOCATION	TONS FUEL OIL	BARRELS
3 C.L.	40-46	1404.87	9313.6
4 C.L.	46-52	1498.38	9933.5
5 C.L.	52-58	1535.94	10182.5
6 C.L.	58-64	1556.97	10322.0
F.O. OVERFLOW	76-81	133.98	888.2
F.O. SLUDGE	76-79	133.23	883.3
TOTAL FUEL OIL		6263.37	41,523.1

ROLL STABILIZER TANK, CAPACITY AT OPR LEVEL (15'-11" SNDG)

TANK	LOCATION	TONS NAVY SPECIAL F.O.	BARRELS
ROLL STABILIZER	67-70	778.65	5268.0

LUBE OIL TANKS, 98% CAPACITY

TANK	LOCATION	TONS LUBE OIL	GALLONS
LUBE OIL STORAGE	79-80	5.87	1710.0
LUBE OIL SETTLER	79-80	4.15	1211.0
TOTAL LUBE OIL		10.02	2921.0

DIESEL OIL TANK, 98% CAPACITY

TANK	LOCATION	TONS DIESEL OIL	GALLONS
DIESEL OIL STORAGE	FWD 88	3.78	1220.0

MARAD DWG. NO. S-29-01-08

PAGE H
8

GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO. 529-01-08 GD NO. 30210-03x2 SH J-6 OF 113 FRAME ① 2 3 4

ALMERIA LYKES INDEX MARAD DWG. NO. S-29-01-08

		PAGE NOS.	FR.#S
FOREPEAK	S.W. BALLAST	1,2	11.12
1-STBD	S.W. BALLAST	3,4	13,14
1-PORT	S.W. BALLAST	5,6	15,16
2-STBD	S.W. BALLAST	7,8	17,18
2-C.L.	S.W. BALLAST	9,10	19.20
2-PORT	S.W. BALLAST	11,12	21.22
3-STBD	S.W. BALLAST	13-15	23.24.25
3-PORT	S.W. BALLAST	16-18	26.27.28
4-STBD	S.W. BALLAST	19-20	29.30
4-PORT	S.W. BALLAST	21,22	31.32
5-STBD	S.W. BALLAST	23-25	33.34.35
5-PORT	S.W. BALLAST	26-28	36.37.38
6-STBD	S.W. BALLAST	29-31	39.40.41
6-PORT	S.W. BALLAST	32-34	42.43.44
7-STBD	S.W. BALLAST	35-37	45.46.47
7-PORT	S.W. BALLAST	38-40	48.49.50
8-STBD	S.W. BALLAST	41-42-42A	51.52.53
8-C.L.	S.W. BALLAST	43-45	54.55.56
8-PORT	S.W. BALLAST	46-48	57.58.59
9-STBD	S.W BALLAST	49-51	60.61.62
9-C.L.	S.W. BALLAST	52-54	63.64.65
9-PORT	S.W. BALLAST	55-57	66.67.68
10-STBD	S.W. BALLAST	58-60	69.70.71
10-PORT	S.W. BALLAST	61-63	72.73.74
11-STBD	S.W. BALLAST	64-65	75.76.
11-PORT	S.W. BALLAST	66-67	77.78
12-STBD	S.W. BALLAST	68-69	79.80
12-PORT	S.W. BALLAST	70-71	81.82
3-C.L.	FUEL OIL STORAGE	72,73	83.84
4-C.L.	FUEL OIL STORAGE	74,75	85.86
5-C.L.	FUEL OIL STORAGE	76,77	87.88
6-C.L.	FUEL OIL STORAGE	78,79	89.90
FUEL OIL OVERFLOW		80	91
FUEL OIL SLUDGE		81	92
LUBE OIL STORAGE		82	93
LUBE OIL SETTLER		83	94
LUBE OIL SUMP		84	95
DIESEL OIL		85	96
ROLL STABILIZER		86,87	97.98

PAGE J 9

ALMERIA LYKES INDEX MARAD DWG. NO. S-29-01-08

			FR.#
RESERVE FEEDWATER STBD		88	99
RESERVE FEEDWATER PORT		89	100
DISTILLED WATER		90	101

ULLAGE TABLES
EVEN KEEL

3-C.L.	FUEL OIL SETTLER	91,92	102, 103
4-C.L.	FUEL OIL SETTLER	93,94	104, 105
5-C.L.	FUEL OIL SETTLER	95,96	106, 107
6-C.L.	FUEL OIL SETTLER	97,98	108, 109
ROLL STABILIZER		99,100	110, 111
FUEL OIL OVERFLOW		101	113
FUEL OIL SLUDGE		102	114

PAGE K 10

SHIP- ALMERIA LYKES
TANK NO- FOREPEAK FRS C-22
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
0	0	0.0	0.0	9	0	13.1	12.7	18	0	64.2	62.3
0	3	0.1	0.1	9	3	13.9	13.5	18	3	66.2	64.3
0	6	0.1	0.1	9	6	14.7	14.3	18	6	68.4	66.4
0	9	0.2	0.2	9	9	15.6	15.1	18	9	70.5	68.5
1	0	0.2	0.2	10	0	16.5	16.0	19	0	72.7	70.6
1	3	0.3	0.3	10	3	17.4	16.9	19	3	74.8	72.6
1	6	0.4	0.4	10	6	18.4	17.9	19	6	77.0	74.8
1	9	0.5	0.5	10	9	19.4	18.8	19	9	79.2	77.0
2	0	0.6	0.6	11	0	20.4	19.8	20	0	81.5	79.2
2	3	0.8	0.8	11	3	21.5	20.9	20	3	83.9	81.5
2	6	0.9	0.9	11	6	22.6	22.0	20	6	86.3	83.8
2	9	1.1	1.1	11	9	23.8	23.1	20	9	88.8	86.2
3	0	1.3	1.3	12	0	24.9	24.2	21	0	91.3	88.7
3	3	1.6	1.5	12	3	26.2	25.4	21	3	93.9	91.2
3	6	1.8	1.8	12	6	27.4	26.6	21	6	96.5	93.7
3	9	2.1	2.0	12	9	28.7	27.9	21	9	99.2	96.3
4	0	2.4	2.3	13	0	30.0	29.2	22	0	101.9	99.0
4	3	2.7	2.6	13	3	31.4	30.5	22	3	104.7	101.7
4	6	3.1	3.0	13	6	32.8	31.9	22	6	107.6	104.5
4	9	3.4	3.3	13	9	34.2	33.2	22	9	110.5	107.3
5	0	3.8	3.7	14	0	35.7	34.7	23	0	113.4	110.2
5	3	4.2	4.1	14	3	37.2	36.1	23	3	116.5	113.1
5	6	4.7	4.5	14	6	38.8	37.6	23	6	119.5	116.1
5	9	5.1	5.0	14	9	40.3	39.2	23	9	122.7	119.1
6	0	5.6	5.5	15	0	42.0	40.7	24	0	125.8	122.2
6	3	6.1	6.0	15	3	43.6	42.3	24	3	129.1	125.3
6	6	6.7	6.5	15	6	45.3	44.0	24	6	132.4	128.5
6	9	7.2	7.0	15	9	47.0	45.7	24	9	135.7	131.8
7	0	7.8	7.6	16	0	48.8	47.4	25	0	139.1	135.1
7	3	8.4	8.2	16	3	50.6	49.1	25	3	142.5	138.4
7	6	9.1	8.8	16	6	52.4	50.9	25	6	146.0	141.8
7	9	9.7	9.4	16	9	54.3	52.7	25	9	149.6	145.3
8	0	10.3	10.0	17	0	56.2	54.6	26	0	153.2	148.8
8	3	11.0	10.7	17	3	58.1	56.4	26	3	156.9	152.4
8	6	11.7	11.3	17	6	60.1	58.4	26	6	160.6	156.0
8	9	12.4	12.0	17	9	62.1	60.3	26	9	164.4	159.7

Q 7024

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SHIP- ALMERIA LYKES
TANK NO- FOREPEAK FRS C-22
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
27	0	168.2	163.4	36	0	342.3	332.4	45	0	613.6	595.9
27	3	172.1	167.2	36	3	348.0	338.0	45	3	621.4	603.5
27	6	176.1	171.0	36	6	353.8	343.6	45	6	629.3	611.2
27	9	180.1	174.9	36	9	360.2	349.8	45	9	637.2	618.8
28	0	184.1	178.8	37	0	367.7	357.1	46	0	645.0	626.4
28	3	188.2	182.8	37	3	375.2	364.4	46	3	652.9	634.1
28	6	192.4	186.8	37	6	382.8	371.7	46	6	660.8	641.8
28	9	196.6	190.9	37	9	390.3	379.1	46	9	668.7	649.4
29	0	200.9	195.1	38	0	397.9	386.4				
29	3	205.2	199.3	38	3	405.4	393.7				
29	6	209.6	203.6	38	6	413.0	401.1				
29	9	214.1	207.9	38	9	420.5	408.4				
30	0	218.6	212.3	39	0	428.1	415.8				
30	3	223.1	216.7	39	3	435.7	423.1				
30	6	227.7	221.2	39	6	443.2	430.5				
30	9	232.4	225.7	39	9	450.8	437.8				
31	0	237.1	230.3	40	0	458.4	445.2				
31	3	241.9	234.9	40	3	466.0	452.6				
31	6	246.7	239.6	40	6	473.6	460.0				
31	9	251.6	244.4	40	9	481.2	467.3				
32	0	256.5	249.2	41	0	488.8	474.7				
32	3	261.5	254.0	41	3	496.4	482.1				
32	6	266.6	258.9	41	6	504.1	489.6				
32	9	271.7	263.9	41	9	511.9	497.1				
33	0	276.9	268.9	42	0	519.7	504.7				
33	3	282.1	274.0	42	3	527.5	512.3				
33	6	287.3	279.1	42	6	535.3	519.9				
33	9	292.7	284.2	42	9	543.1	527.4				
34	0	298.0	289.5	43	0	550.9	535.0				
34	3	303.4	294.7	43	3	558.7	542.6				
34	6	308.8	299.9	43	6	566.5	550.2				
34	9	314.3	305.2	43	9	574.4	557.8				
35	0	319.8	310.6	44	0	582.2	565.4				
35	3	325.3	315.9	44	3	590.0	573.0				
35	6	330.9	321.4	44	6	597.9	580.6				
35	9	336.6	326.9	44	9	605.7	588.3				

Q 7024 100 % SOUNDING 46FT 11-1/8 IN 675.0 TONS SW 655.55 TONS FW

TOTAL SOUNDING TUBE LENGTH 46FT 11-1/2 IN

SHIP- ALMERIA LYKES
TANK NO- 1-STBD FRS 28-34
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
0	0	0.2	0.2	9	0	70.1	68.1	18	0	241.4	234.5
0	3	0.5	0.5	9	3	73.5	71.4	18	3	247.6	240.4
0	6	0.9	0.9	9	6	77.0	74.8	18	6	253.8	246.5
0	9	1.4	1.4	9	9	80.6	78.3	18	9	260.1	252.6
1	0	2.0	2.0	10	0	84.3	81.9	19	0	266.5	258.8
1	3	2.8	2.7	10	3	88.1	85.5	19	3	272.9	265.1
1	6	3.6	3.5	10	6	91.9	89.3	19	6	279.4	271.4
1	9	4.5	4.4	10	9	95.8	93.1	19	9	286.0	277.8
2	0	5.5	5.3	11	0	99.8	96.9	20	0	292.7	284.3
2	3	6.6	6.4	11	3	103.9	100.9	20	3	299.5	290.9
2	6	7.9	7.6	11	6	108.0	104.9	20	6	306.4	297.5
2	9	9.2	8.9	11	9	112.3	109.0	20	9	313.3	304.3
3	0	10.6	10.3	12	0	116.6	113.2	21	0	320.3	311.0
3	3	12.1	11.8	12	3	121.0	117.5	21	3	327.3	317.9
3	6	13.8	13.4	12	6	125.4	121.8	21	6	334.4	324.8
3	9	15.5	15.1	12	9	130.0	126.2	21	9	341.6	331.8
4	0	17.4	16.9	13	0	134.6	130.7	22	0	348.9	338.9
4	3	19.3	18.7	13	3	139.2	135.2	22	3	356.3	346.0
4	6	21.3	20.7	13	6	144.0	139.8	22	6	363.7	353.2
4	9	23.4	22.7	13	9	148.8	144.5	22	9	371.1	360.5
5	0	25.5	24.8	14	0	153.6	149.2	23	0	378.7	367.8
5	3	27.7	26.9	14	3	158.6	154.0	23	3	386.3	375.2
5	6	30.0	29.2	14	6	163.6	158.9	23	6	394.0	382.7
5	9	32.4	31.5	14	9	168.6	163.8	23	9	401.8	390.2
6	0	34.8	33.8	15	0	173.8	168.8	24	0	409.7	397.9
6	3	37.4	36.3	15	3	179.0	173.8	24	3	417.6	405.6
6	6	39.9	38.8	15	6	184.3	179.0	24	6	425.6	413.3
6	9	42.6	41.4	15	9	189.6	184.2	24	9	433.7	421.2
7	0	45.3	44.0	16	0	195.1	189.5	25	0	441.8	429.1
7	3	48.2	46.8	16	3	200.6	194.8	25	3	450.1	437.1
7	6	51.0	49.6	16	6	206.2	200.3	25	6	458.4	445.2
7	9	54.0	52.4	16	9	211.9	205.8	25	9	466.8	453.3
8	0	57.1	55.4	17	0	217.6	211.4	26	0	475.2	461.5
8	3	60.2	58.5	17	3	223.5	217.0	26	3	483.8	469.8
8	6	63.4	61.6	17	6	229.4	222.8	26	6	492.4	478.2
8	9	66.7	64.8	17	9	235.4	228.6	26	9	501.0	486.6

Q 7024

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SHIP- ALMERIA LYKES
TANK NO- 1-STBD FRS 28-34
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
27	0	509.8	495.1								
27	3	518.6	503.7								
27	6	527.5	512.3								
27	9	536.5	521.0								
28	0	545.5	529.8								
28	3	554.5	538.6								
28	6	563.6	547.3								
28	9	571.7	555.3								
29	0	576.7	560.1								

Q 7024 100 % SOUNDING 29FT 2-3/8 IN 580.7 TONS SW 563.94 TONS FW

TOTAL SOUNDING TUBE LENGTH 32FT 6-1/2 IN

SHIP- ALMERIA LYKES
TANK NO- 1-PORT FRS 28-34
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
0	0	0.9	0.8	9	0	75.9	73.7	18	0	250.8	243.6
0	3	1.4	1.3	9	3	79.4	77.1	18	3	257.0	249.6
0	6	2.0	1.9	9	6	82.9	80.5	18	6	263.2	255.6
0	9	2.6	2.6	9	9	86.5	84.0	18	9	269.4	261.7
1	0	3.4	3.3	10	0	90.1	87.5	19	0	275.7	267.8
1	3	4.3	4.2	10	3	93.8	91.1	19	3	282.1	273.9
1	6	5.3	5.2	10	6	97.5	94.7	19	6	288.5	280.2
1	9	6.4	6.2	10	9	101.4	98.4	19	9	295.0	286.5
2	0	7.6	7.4	11	0	105.2	102.2	20	0	301.6	293.0
2	3	8.9	8.7	11	3	109.1	106.0	20	3	308.4	299.5
2	6	10.3	10.0	11	6	113.2	109.9	20	6	315.2	306.1
2	9	11.8	11.5	11	9	117.3	113.9	20	9	322.2	312.9
3	0	13.4	13.0	12	0	121.5	118.0	21	0	329.2	319.8
3	3	15.1	14.7	12	3	125.9	122.3	21	3	336.4	326.7
3	6	17.0	16.5	12	6	130.3	126.6	21	6	343.7	333.8
3	9	18.9	18.3	12	9	134.9	131.0	21	9	351.0	340.9
4	0	20.8	20.2	13	0	139.5	135.5	22	0	358.5	348.2
4	3	22.9	22.2	13	3	144.3	140.1	22	3	366.1	355.6
4	6	25.0	24.3	13	6	149.1	144.8	22	6	373.8	363.0
4	9	27.2	26.4	13	9	154.1	149.6	22	9	381.6	370.6
5	0	29.5	28.7	14	0	159.1	154.5	23	0	389.5	378.3
5	3	31.9	30.9	14	3	164.3	159.5	23	3	397.5	386.1
5	6	34.3	33.3	14	6	169.5	164.7	23	6	405.6	393.9
5	9	36.8	35.7	14	9	174.9	169.9	23	9	413.8	401.9
6	0	39.4	38.2	15	0	180.4	175.2	24	0	422.0	409.8
6	3	42.0	40.8	15	3	185.9	180.6	24	3	430.2	417.8
6	6	44.7	43.5	15	6	191.6	186.1	24	6	438.5	425.8
6	9	47.5	46.2	15	9	197.3	191.7	24	9	446.8	433.9
7	0	50.4	49.0	16	0	203.1	197.3	25	0	455.1	442.0
7	3	53.4	51.8	16	3	208.9	202.9	25	3	463.5	450.1
7	6	56.4	54.8	16	6	214.8	208.6	25	6	471.9	458.3
7	9	59.5	57.8	16	9	220.7	214.3	25	9	480.4	466.5
8	0	62.7	60.9	17	0	226.6	220.1	26	0	488.9	474.8
8	3	65.9	64.0	17	3	232.6	225.9	26	3	497.4	483.1
8	6	69.2	67.2	17	6	238.6	231.8	26	6	506.0	491.4
8	9	72.5	70.4	17	9	244.7	237.7	26	9	514.6	499.8

Q 7024

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SHIP- ALMERIA LYKES
TANK NO- 1-PORT FRS 28-34
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

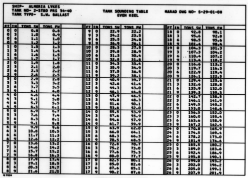
MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
27	0	523.2	508.2								
27	3	531.9	516.6								
27	6	540.7	525.1								
27	9	549.6	533.8								
28	0	558.8	542.7								
28	3	568.0	551.7								
28	6	572.9	556.4								
28	9	578.0	561.4								

Q 7024 100 % SOUNDING 28FT 9-1/8 IN 578.1 TONS SW 561.48 TONS FW

TOTAL SOUNDING TUBE LENGTH 32FT 0-7/8 IN

GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO. 529-01-08 GD NO. 30210-03x2 SH 7-14 OF 113 FRAME ① 2 3 4



SHIP- ALMERIA LYKES
TANK NO- 2-STBD FRS 34-40
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
0	0	0.8	0.8	9	0	22.9	22.2	18	0	92.8	90.1
0	3	1.0	0.9	9	3	24.2	23.5	18	3	95.6	92.8
0	6	1.1	1.0	9	6	25.5	24.8	18	6	98.5	95.6
0	9	1.2	1.2	9	9	26.9	26.1	18	9	101.4	98.4
1	0	1.3	1.3	10	0	28.3	27.5	19	0	104.3	101.3
1	3	1.4	1.4	10	3	29.8	28.9	19	3	107.3	104.2
1	6	1.6	1.5	10	6	31.3	30.4	19	6	110.4	107.2
1	9	1.7	1.7	10	9	32.8	31.8	19	9	113.4	110.2
2	0	1.9	1.8	11	0	34.3	33.4	20	0	116.6	113.2
2	3	2.1	2.0	11	3	35.9	34.9	20	3	119.7	116.3
2	6	2.3	2.2	11	6	37.5	36.5	20	6	122.9	119.4
2	9	2.6	2.5	11	9	39.2	38.1	20	9	126.1	122.5
3	0	2.9	2.8	12	0	40.9	39.7	21	0	129.4	125.6
3	3	3.3	3.2	12	3	42.6	41.4	21	3	132.6	128.8
3	6	3.7	3.5	12	6	44.3	43.0	21	6	135.9	132.0
3	9	4.1	4.0	12	9	46.1	44.8	21	9	139.3	135.3
4	0	4.6	4.4	13	0	47.9	46.5	22	0	142.7	138.5
4	3	5.1	5.0	13	3	49.8	48.3	22	3	146.1	141.9
4	6	5.7	5.5	13	6	51.6	50.1	22	6	149.5	145.2
4	9	6.3	6.1	13	9	53.6	52.0	22	9	153.0	148.6
5	0	6.9	6.7	14	0	55.5	53.9	23	0	156.5	152.0
5	3	7.6	7.4	14	3	57.6	55.9	23	3	160.0	155.4
5	6	8.3	8.1	14	6	59.6	57.9	23	6	163.6	158.9
5	9	9.1	8.8	14	9	61.7	59.9	23	9	167.2	162.4
6	0	9.9	9.6	15	0	63.9	62.0	24	0	170.8	165.9
6	3	10.8	10.5	15	3	66.0	64.1	24	3	174.5	169.4
6	6	11.7	11.3	15	6	68.3	66.3	24	6	178.2	173.0
6	9	12.6	12.2	15	9	70.5	68.5	24	9	181.9	176.6
7	0	13.6	13.2	16	0	72.8	70.7	25	0	185.5	180.2
7	3	14.6	14.2	16	3	75.2	73.0	25	3	189.0	183.6
7	6	15.7	15.2	16	6	77.6	75.3	25	6	192.4	186.9
7	9	16.8	16.3	16	9	80.0	77.7	25	9	195.8	190.1
8	0	17.9	17.4	17	0	82.5	80.1	26	0	199.0	193.2
8	3	19.1	18.5	17	3	85.0	82.6	26	3	202.0	196.2
8	6	20.3	19.7	17	6	87.6	85.1	26	6	205.0	199.1
8	9	21.6	21.0	17	9	90.2	87.6	26	9	207.9	201.9

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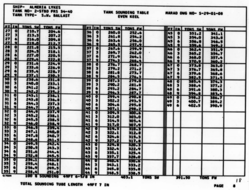


SHIP- ALMERIA LYKES
TANK NO- 2-STBD FRS 34-40
TANK TYPE- S.W. BALLAST

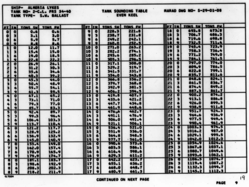
TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
27	0	210.7	204.6	36	0	260.0	252.6	45	0	351.2	341.1
27	3	213.3	207.2	36	3	261.8	254.2	45	3	354.0	343.8
27	6	216.0	209.8	36	6	263.6	256.0	45	6	356.8	346.5
27	9	219.0	212.7	36	9	265.5	257.9	45	9	359.6	349.2
28	0	221.8	215.5	37	0	267.6	259.9	46	0	362.4	351.9
28	3	224.5	218.1	37	3	269.7	262.0	46	3	365.2	354.7
28	6	227.0	220.5	37	6	271.9	264.1	46	6	368.0	357.4
28	9	229.4	222.8	37	9	274.3	266.4	46	9	370.9	360.2
29	0	231.6	224.9	38	0	276.7	268.7	47	0	373.8	363.0
29	3	233.6	226.9	38	3	279.2	271.2	47	3	376.7	365.8
29	6	235.4	228.7	38	6	281.8	273.7	47	6	379.6	368.6
29	9	237.1	230.3	38	9	284.5	276.3	47	9	382.5	371.5
30	0	238.6	231.8	39	0	287.3	279.0	48	0	385.4	374.3
30	3	240.0	233.1	39	3	290.2	281.8	48	3	388.4	377.2
30	6	241.2	234.2	39	6	293.2	284.7	48	6	391.6	380.3
30	9	242.2	235.2	39	9	296.3	287.7	48	9	394.8	383.4
31	0	243.1	236.1	40	0	299.4	290.8	49	0	398.2	386.7
31	3	243.8	236.8	40	3	302.2	293.5	49	3	400.7	389.2
31	6	244.3	237.3	40	6	304.6	295.8	49	6	402.5	390.9
31	9	244.7	237.6	40	9	307.1	298.2				
32	0	244.9	237.9	41	0	309.5	300.6				
32	3	245.2	238.1	41	3	312.0	303.0				
32	6	245.5	238.5	41	6	314.5	305.4				
32	9	246.0	238.9	41	9	317.0	307.9				
33	0	246.5	239.4	42	0	319.5	310.3				
33	3	247.1	240.0	42	3	322.1	312.8				
33	6	247.8	240.7	42	6	324.6	315.3				
33	9	248.6	241.5	42	9	327.2	317.8				
34	0	249.5	242.4	43	0	329.8	320.3				
34	3	250.5	243.3	43	3	332.4	322.9				
34	6	251.6	244.4	43	6	335.1	325.4				
34	9	252.8	245.5	43	9	337.7	328.0				
35	0	254.1	246.8	44	0	340.4	330.6				
35	3	255.4	248.1	44	3	343.1	333.2				
35	6	256.9	249.5	44	6	345.8	335.8				
35	9	258.4	251.0	44	9	348.5	338.5				

Q7024 100 % SOUNDING 49FT 6-5/8 IN 403.1 TONS SW 391.50 TONS FW

TOTAL SOUNDING TUBE LENGTH 49FT 7 IN



SHIP- ALMERIA LYKES
TANK NO- 2-C.L. FRS 34-40
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
0	0	0.6	0.6	9	0	228.3	221.8	18	0	693.8	673.8
0	3	3.1	3.0	9	3	238.7	231.8	18	3	706.7	686.3
0	6	5.9	5.7	9	6	249.2	242.1	18	6	719.6	698.8
0	9	8.8	8.6	9	9	260.0	252.5	18	9	732.5	711.4
1	0	12.0	11.7	10	0	271.0	263.2	19	0	745.4	723.9
1	3	15.4	15.0	10	3	282.2	274.1	19	3	758.3	736.4
1	6	19.0	18.5	10	6	293.6	285.2	19	6	771.2	749.0
1	9	22.8	22.2	10	9	305.3	296.5	19	9	784.1	761.5
2	0	26.9	26.1	11	0	317.1	308.0	20	0	797.0	774.0
2	3	31.2	30.3	11	3	329.2	319.7	20	3	809.9	786.5
2	6	35.6	34.6	11	6	341.5	331.7	20	6	822.8	799.1
2	9	40.3	39.2	11	9	354.0	343.8	20	9	835.7	811.6
3	0	45.3	44.0	12	0	366.8	356.2	21	0	848.6	824.1
3	3	50.4	48.9	12	3	379.7	368.8	21	3	861.5	836.7
3	6	55.7	54.1	12	6	392.9	381.5	21	6	874.4	849.2
3	9	61.3	59.5	12	9	406.2	394.5	21	9	887.3	861.7
4	0	67.1	65.2	13	0	419.8	407.7	22	0	900.2	874.2
4	3	73.1	71.0	13	3	433.6	421.2	22	3	913.1	886.8
4	6	79.3	77.0	13	6	447.7	434.8	22	6	926.0	899.3
4	9	85.7	83.3	13	9	461.9	448.6	22	9	938.9	911.8
5	0	92.4	89.7	14	0	476.4	462.7	23	0	951.7	924.3
5	3	99.3	96.4	14	3	491.1	476.9	23	3	964.6	936.9
5	6	106.4	103.3	14	6	506.0	491.4	23	6	977.5	949.4
5	9	113.7	110.4	14	9	521.1	506.1	23	9	990.4	961.9
6	0	121.2	117.7	15	0	536.4	521.0	24	0	1003.3	974.5
6	3	128.9	125.2	15	3	551.9	536.0	24	3	1016.2	987.0
6	6	136.9	132.9	15	6	564.8	548.5	24	6	1029.1	999.5
6	9	145.0	140.9	15	9	577.7	561.0	24	9	1042.0	1012.0
7	0	153.4	149.0	16	0	590.6	573.6	25	0	1054.9	1024.6
7	3	162.0	157.4	16	3	603.5	586.1	25	3	1067.8	1037.1
7	6	170.9	165.9	16	6	616.4	598.6	25	6	1080.7	1049.6
7	9	179.9	174.7	16	9	629.3	611.2	25	9	1093.6	1062.1
8	0	189.1	183.7	17	0	642.2	623.7	26	0	1106.5	1074.7
8	3	198.6	192.9	17	3	655.1	636.2	26	3	1119.4	1087.2
8	6	208.3	202.3	17	6	668.0	648.7	26	6	1132.3	1099.7
8	9	218.2	211.9	17	9	680.9	661.3	26	9	1145.2	1112.3

Q7024

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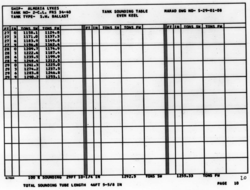


SHIP- ALMERIA LYKES
TANK NO- 2-C.L. FRS 34-40
TANK TYPE- S.W. BALLAST

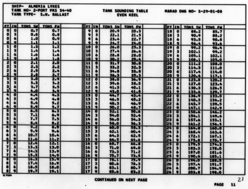
TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
27	0	1158.1	1124.8								
27	3	1171.0	1137.3								
27	6	1183.9	1149.8								
27	9	1196.8	1162.4								
28	0	1209.7	1174.9								
28	3	1222.6	1187.4								
28	6	1235.5	1199.9								
28	9	1248.4	1212.5								
29	0	1261.3	1225.0								
29	3	1274.2	1237.5								
29	6	1283.8	1246.8								
29	9	1290.2	1253.1								

Q7024 100 % SOUNDING 29FT 10-1/4 IN 1292.5 TONS SW 1255.33 TONS FW

TOTAL SOUNDING TUBE LENGTH 46FT 5-5/8 IN



SHIP- ALMERIA LYKES
TANK NO- 2-PORT FRS 34-40
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
0	0	0.7	0.7	9	0	20.9	20.3	18	0	88.2	85.7
0	3	0.8	0.8	9	3	22.1	21.5	18	3	90.9	88.2
0	6	1.0	0.9	9	6	23.4	22.7	18	6	93.5	90.8
0	9	1.1	1.1	9	9	24.7	24.0	18	9	96.4	93.6
1	0	1.3	1.2	10	0	26.0	25.3	19	0	99.2	96.4
1	3	1.4	1.4	10	3	27.4	26.6	19	3	102.1	99.2
1	6	1.6	1.6	10	6	28.8	28.0	19	6	105.1	102.1
1	9	1.8	1.8	10	9	30.2	29.4	19	9	108.1	105.0
2	0	2.1	2.0	11	0	31.7	30.8	20	0	111.2	108.0
2	3	2.3	2.2	11	3	33.2	32.3	20	3	114.3	111.0
2	6	2.5	2.4	11	6	34.8	33.8	20	6	117.4	114.0
2	9	2.8	2.7	11	9	36.3	35.3	20	9	120.6	117.1
3	0	3.0	2.9	12	0	38.0	36.9	21	0	123.8	120.2
3	3	3.3	3.2	12	3	39.6	38.5	21	3	127.0	123.4
3	6	3.7	3.5	12	6	41.3	40.1	21	6	130.3	126.5
3	9	4.0	3.9	12	9	43.0	41.8	21	9	133.6	129.7
4	0	4.4	4.3	13	0	44.7	43.4	22	0	136.9	133.0
4	3	4.9	4.8	13	3	46.5	45.2	22	3	140.3	136.2
4	6	5.4	5.2	13	6	48.3	46.9	22	6	143.7	139.5
4	9	5.9	5.7	13	9	50.2	48.7	22	9	147.1	142.9
5	0	6.5	6.3	14	0	52.1	50.6	23	0	150.6	146.2
5	3	7.1	6.9	14	3	54.0	52.4	23	3	154.1	149.6
5	6	7.7	7.5	14	6	56.0	54.3	23	6	157.6	153.1
5	9	8.4	8.2	14	9	58.0	56.3	23	9	161.2	156.5
6	0	9.2	8.9	15	0	60.0	58.3	24	0	164.8	160.0
6	3	9.9	9.6	15	3	62.1	60.4	24	3	168.4	163.6
6	6	10.7	10.4	15	6	64.3	62.5	24	6	172.1	167.1
6	9	11.6	11.2	15	9	66.5	64.6	24	9	175.8	170.7
7	0	12.4	12.1	16	0	68.7	66.8	25	0	179.5	174.3
7	3	13.3	13.0	16	3	71.0	69.0	25	3	183.3	178.0
7	6	14.3	13.9	16	6	73.3	71.2	25	6	187.0	181.6
7	9	15.3	14.9	16	9	75.7	73.5	25	9	190.6	185.1
8	0	16.3	15.9	17	0	78.1	75.9	26	0	194.0	188.5
8	3	17.4	16.9	17	3	80.6	78.3	26	3	197.4	191.7
8	6	18.5	18.0	17	6	83.1	80.7	26	6	200.7	194.9
8	9	19.7	19.1	17	9	85.6	83.2	26	9	203.8	198.0

Q7024

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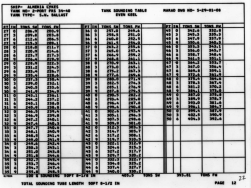


SHIP- ALMERIA LYKES
TANK NO- 2-PORT FRS 34-40
TANK TYPE- S.W. BALLAST

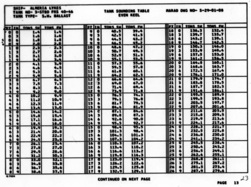
TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
27	0	206.9	200.9	36	0	257.0	249.6	45	0	342.6	332.8
27	3	209.8	203.8	36	3	258.5	251.0	45	3	345.3	335.3
27	6	212.6	206.5	36	6	260.0	252.5	45	6	347.9	337.9
27	9	215.3	209.1	36	9	261.5	254.0	45	9	350.6	340.5
28	0	218.0	211.7	37	0	263.2	255.6	46	0	353.3	343.1
28	3	220.9	214.6	37	3	265.0	257.4	46	3	356.0	345.7
28	6	223.7	217.3	37	6	266.9	259.2	46	6	358.7	348.4
28	9	226.4	219.9	37	9	268.8	261.1	46	9	361.5	351.1
29	0	228.9	222.3	38	0	270.9	263.1	47	0	364.2	353.7
29	3	231.2	224.5	38	3	273.0	265.1	47	3	367.0	356.4
29	6	233.4	226.7	38	6	275.2	267.3	47	6	369.8	359.1
29	9	235.4	228.6	38	9	277.6	269.6	47	9	372.6	361.9
30	0	237.3	230.4	39	0	280.0	271.9	48	0	375.4	364.6
30	3	239.0	232.1	39	3	282.5	274.3	48	3	378.3	367.4
30	6	240.5	233.6	39	6	285.1	276.9	48	6	381.2	370.2
30	9	241.9	234.9	39	9	287.8	279.5	48	9	384.1	373.0
31	0	243.1	236.1	40	0	290.5	282.2	49	0	387.0	375.8
31	3	244.2	237.2	40	3	293.4	285.0	49	3	389.9	378.7
31	6	245.1	238.0	40	6	296.4	287.8	49	6	393.0	381.6
31	9	245.9	238.8	40	9	299.4	290.8	49	9	396.1	384.7
32	0	246.5	239.4	41	0	302.6	293.9	50	0	399.4	387.9
32	3	246.9	239.8	41	3	305.1	296.3	50	3	402.5	390.9
32	6	247.2	240.1	41	6	307.5	298.6	50	6	404.3	392.6
32	9	247.4	240.3	41	9	309.9	301.0				
33	0	247.7	240.6	42	0	312.3	303.3				
33	3	248.1	240.9	42	3	314.7	305.7				
33	6	248.5	241.4	42	6	317.2	308.1				
33	9	249.0	241.9	42	9	319.7	310.5				
34	0	249.6	242.4	43	0	322.1	312.9				
34	3	250.3	243.1	43	3	324.6	315.3				
34	6	251.0	243.8	43	6	327.2	317.7				
34	9	251.8	244.6	43	9	329.7	320.2				
35	0	252.7	245.4	44	0	332.3	322.7				
35	3	253.7	246.4	44	3	334.8	325.2				
35	6	254.7	247.4	44	6	337.4	327.7				
35	9	255.8	248.5	44	9	340.0	330.2				

Q7024 100 % SOUNDING 50FT 8-1/8 IN 405.5 TONS SW 393.81 TONS FW

TOTAL SOUNDING TUBE LENGTH 50FT 8-1/2 IN



SHIP- ALMERIA LYKES
TANK NO- 3-STBD FRS 40-46
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
0	0	1.4	1.4	9	0	40.5	39.4	18	0	136.3	132.4
0	3	1.6	1.6	9	3	42.5	41.3	18	3	139.7	135.7
0	6	1.8	1.8	9	6	44.5	43.2	18	6	143.2	139.1
0	9	2.0	2.0	9	9	46.5	45.2	18	9	146.7	142.5
1	0	2.3	2.3	10	0	48.6	47.2	19	0	150.3	146.0
1	3	2.7	2.6	10	3	50.7	49.3	19	3	153.9	149.4
1	6	3.1	3.0	10	6	52.9	51.3	19	6	157.5	153.0
1	9	3.5	3.4	10	9	55.1	53.5	19	9	161.2	156.5
2	0	4.1	3.9	11	0	57.3	55.6	20	0	164.8	160.1
2	3	4.6	4.5	11	3	59.5	57.8	20	3	168.6	163.7
2	6	5.3	5.1	11	6	61.8	60.1	20	6	172.3	167.4
2	9	5.9	5.8	11	9	64.2	62.3	20	9	176.1	171.0
3	0	6.7	6.5	12	0	66.6	64.6	21	0	179.9	174.7
3	3	7.5	7.3	12	3	69.0	67.0	21	3	183.8	178.5
3	6	8.3	8.1	12	6	71.4	69.4	21	6	187.7	182.3
3	9	9.2	9.0	12	9	73.9	71.8	21	9	191.6	186.1
4	0	10.2	9.9	13	0	76.5	74.3	22	0	195.5	189.9
4	3	11.2	10.9	13	3	79.1	76.8	22	3	199.5	193.8
4	6	12.3	11.9	13	6	81.7	79.3	22	6	203.5	197.7
4	9	13.4	13.0	13	9	84.4	81.9	22	9	207.6	201.6
5	0	14.6	14.2	14	0	87.1	84.6	23	0	211.6	205.5
5	3	15.8	15.4	14	3	89.8	87.3	23	3	215.8	209.5
5	6	17.1	16.6	14	6	92.6	90.0	23	6	219.9	213.6
5	9	18.5	18.0	14	9	95.5	92.7	23	9	224.1	217.6
6	0	19.9	19.3	15	0	98.4	95.5	24	0	228.3	221.7
6	3	21.4	20.8	15	3	101.3	98.4	24	3	232.5	225.8
6	6	22.9	22.2	15	6	104.3	101.3	24	6	236.8	230.0
6	9	24.5	23.8	15	9	107.3	104.2	24	9	241.1	234.2
7	0	26.1	25.4	16	0	110.3	107.2	25	0	245.5	238.4
7	3	27.8	27.0	16	3	113.4	110.2	25	3	250.4	243.2
7	6	29.5	28.6	16	6	116.6	113.2	25	6	256.5	249.1
7	9	31.2	30.3	16	9	119.8	116.3	25	9	262.6	255.1
8	0	33.0	32.1	17	0	123.0	119.4	26	0	268.8	261.1
8	3	34.8	33.8	17	3	126.2	122.6	26	3	275.1	267.2
8	6	36.7	35.6	17	6	129.5	125.8	26	6	281.5	273.4
8	9	38.6	37.5	17	9	132.9	129.1	26	9	287.9	279.6

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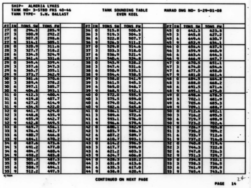

SHIP- ALMERIA LYKES
TANK NO- 3-STBD FRS 40-46
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
27	0	294.3	285.9	36	0	515.8	500.9	45	0	642.3	623.8
27	3	300.9	292.2	36	3	519.3	504.3	45	3	645.8	627.2
27	6	307.5	298.6	36	6	522.8	507.7	45	6	649.4	630.7
27	9	314.1	305.1	36	9	526.3	511.2	45	9	652.9	634.1
28	0	320.9	311.6	37	0	529.8	514.6	46	0	656.4	637.5
28	3	327.7	318.2	37	3	533.3	518.0	46	3	659.9	640.9
28	6	334.5	324.9	37	6	536.9	521.4	46	6	663.4	644.3
28	9	341.4	331.6	37	9	540.4	524.8	46	9	666.9	647.7
29	0	349.4	339.4	38	0	543.9	528.2	47	0	670.5	651.1
29	3	357.6	347.3	38	3	547.4	531.6	47	3	674.0	654.6
29	6	365.7	355.1	38	6	550.9	535.1	47	6	677.5	658.0
29	9	373.7	362.9	38	9	554.4	538.5	47	9	681.0	661.4
30	0	381.6	370.6	39	0	558.0	541.9	48	0	684.5	664.8
30	3	389.4	378.2	39	3	561.5	545.3	48	3	688.0	668.2
30	6	397.1	385.7	39	6	565.0	548.7	48	6	691.5	671.6
30	9	404.8	393.1	39	9	568.5	552.1	48	9	695.1	675.0
31	0	412.3	400.4	40	0	572.0	555.5	49	0	698.6	678.5
31	3	419.8	407.7	40	3	575.5	559.0	49	3	702.1	681.9
31	6	427.2	414.9	40	6	579.0	562.4	49	6	705.6	685.3
31	9	434.5	422.0	40	9	582.6	565.8	49	9	709.1	688.7
32	0	441.7	429.0	41	0	586.1	569.2	50	0	712.6	692.1
32	3	448.8	435.9	41	3	589.6	572.6	50	3	716.2	695.5
32	6	455.9	442.7	41	6	593.1	576.0	50	6	719.7	698.9
32	9	462.8	449.5	41	9	596.6	579.4	50	9	723.2	702.4
33	0	469.7	456.1	42	0	600.1	582.9	51	0	726.7	705.8
33	3	476.4	462.7	42	3	603.7	586.3	51	3	730.2	709.2
33	6	480.7	466.8	42	6	607.2	589.7	51	6	733.7	712.6
33	9	484.1	470.2	42	9	610.7	593.1	51	9	737.2	716.0
34	0	487.6	473.6	43	0	614.2	596.5	52	0	740.8	719.4
34	3	491.2	477.0	43	3	617.7	599.9	52	3	744.3	722.8
34	6	494.7	480.4	43	6	621.2	603.3	52	6	747.8	726.3
34	9	498.2	483.8	43	9	624.7	606.8	52	9	751.3	729.7
35	0	501.7	487.3	44	0	628.3	610.2	53	0	754.8	733.1
35	3	505.2	490.7	44	3	631.8	613.6	53	3	758.3	736.5
35	6	508.7	494.1	44	6	635.3	617.0	53	6	761.9	739.9
35	9	512.2	497.5	44	9	638.8	620.4	53	9	765.4	743.3

Q7024

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GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO.529-01-08 GD NO.30210-03x2 SH 15-22 OF 113 FRAME ① 2 3 4

SHIP- ALMERIA LYKES
TANK NO- 3-STBD FRS 40-46
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
54	0	768.9	746.7								
54	3	772.4	750.2								
54	6	775.9	753.6								
54	9	779.4	757.0								
55	0	783.0	760.4								

Q7024 100 % SOUNDING 55FT 0-3/8 IN 783.4 TONS SW 760.83 TONS FW

TOTAL SOUNDING TUBE LENGTH 55FT 0-3/4 IN

SHIP- ALMERIA LYKES
TANK NO- 3-PORT FRS 40-46
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
0	0	1.1	1.1	9	0	39.3	38.2	18	0	123.4	119.8
0	3	1.3	1.2	9	3	41.2	40.0	18	3	126.6	122.9
0	6	1.5	1.4	9	6	43.1	41.8	18	6	129.9	126.1
0	9	1.7	1.6	9	9	45.0	43.7	18	9	133.2	129.4
1	0	1.9	1.8	10	0	46.9	45.6	19	0	136.7	132.7
1	3	2.1	2.0	10	3	48.8	47.4	19	3	140.1	136.1
1	6	2.4	2.3	10	6	50.8	49.3	19	6	143.7	139.5
1	9	2.7	2.7	10	9	52.8	51.2	19	9	147.2	143.0
2	0	3.2	3.1	11	0	54.7	53.2	20	0	150.8	146.5
2	3	3.7	3.6	11	3	56.7	55.1	20	3	154.4	150.0
2	6	4.2	4.1	11	6	58.7	57.0	20	6	158.1	153.5
2	9	4.8	4.7	11	9	60.7	59.0	20	9	161.7	157.0
3	0	5.5	5.3	12	0	62.8	60.9	21	0	165.3	160.6
3	3	6.2	6.0	12	3	64.8	62.9	21	3	169.7	164.8
3	6	7.0	6.8	12	6	66.8	64.9	21	6	174.0	169.0
3	9	7.9	7.7	12	9	68.9	66.9	21	9	178.4	173.3
4	0	8.8	8.5	13	0	71.0	68.9	22	0	182.8	177.5
4	3	9.8	9.5	13	3	73.1	71.0	22	3	187.2	181.8
4	6	10.8	10.5	13	6	75.2	73.0	22	6	191.6	186.1
4	9	11.9	11.6	13	9	77.4	75.1	22	9	196.1	190.4
5	0	13.1	12.7	14	0	79.6	77.3	23	0	200.5	194.7
5	3	14.3	13.9	14	3	81.9	79.5	23	3	205.0	199.1
5	6	15.6	15.2	14	6	84.2	81.8	23	6	209.5	203.4
5	9	17.0	16.5	14	9	86.7	84.2	23	9	213.9	207.8
6	0	18.4	17.9	15	0	89.1	86.6	24	0	218.5	212.2
6	3	19.9	19.3	15	3	91.7	89.0	24	3	223.0	216.6
6	6	21.5	20.8	15	6	94.2	91.5	24	6	227.5	221.0
6	9	23.1	22.4	15	9	96.9	94.1	24	9	232.1	225.4
7	0	24.7	24.0	16	0	99.6	96.7	25	0	236.7	229.8
7	3	26.5	25.7	16	3	102.4	99.4	25	3	241.3	234.4
7	6	28.3	27.4	16	6	105.2	102.2	25	6	246.0	238.9
7	9	30.1	29.2	16	9	108.1	105.0	25	9	250.8	243.6
8	0	31.9	31.0	17	0	111.0	107.8	26	0	255.7	248.3
8	3	33.7	32.7	17	3	114.0	110.7	26	3	260.6	253.1
8	6	35.6	34.5	17	6	117.1	113.7	26	6	265.6	258.0
8	9	37.4	36.3	17	9	120.2	116.7	26	9	270.7	262.9

Q7024

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SHIP- ALMERIA LYKES
TANK NO- 3-PORT FRS 40-46
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
27	0	275.8	267.9	36	0	506.9	492.3	45	0	633.3	615.1
27	3	281.0	272.9	36	3	510.4	495.7	45	3	636.8	618.5
27	6	286.3	278.1	36	6	513.9	499.1	45	6	640.3	621.9
27	9	291.7	283.3	36	9	517.4	502.5	45	9	643.9	625.3
28	0	297.1	288.5	37	0	520.9	505.9	46	0	647.4	628.7
28	3	303.1	294.4	37	3	524.4	509.3	46	3	650.9	632.1
28	6	309.9	301.0	37	6	528.0	512.8	46	6	654.4	635.6
28	9	316.9	307.8	37	9	531.5	516.2	46	9	657.9	639.0
29	0	323.9	314.6	38	0	535.0	519.6	47	0	661.4	642.4
29	3	331.1	321.6	38	3	538.5	523.0	47	3	664.9	645.8
29	6	338.4	328.6	38	6	542.0	526.4	47	6	668.4	649.2
29	9	345.7	335.8	38	9	545.5	529.8	47	9	672.0	652.6
30	0	354.1	343.9	39	0	549.0	533.2	48	0	675.5	656.0
30	3	362.4	352.0	39	3	552.5	536.6	48	3	679.0	659.4
30	6	370.6	359.9	39	6	556.1	540.0	48	6	682.5	662.8
30	9	378.7	367.8	39	9	559.6	543.5	48	9	686.0	666.3
31	0	386.8	375.6	40	0	563.1	546.9	49	0	689.5	669.7
31	3	394.7	383.4	40	3	566.6	550.3	49	3	693.0	673.1
31	6	402.6	391.0	40	6	570.1	553.7	49	6	696.5	676.5
31	9	410.4	398.6	40	9	573.6	557.1	49	9	700.1	679.9
32	0	418.1	406.0	41	0	577.1	560.5	50	0	703.6	683.3
32	3	425.6	413.4	41	3	580.6	563.9	50	3	707.1	686.7
32	6	433.1	420.7	41	6	584.2	567.3	50	6	710.6	690.1
32	9	440.6	427.9	41	9	587.7	570.7	50	9	714.1	693.5
33	0	447.9	435.0	42	0	591.2	574.2	51	0	717.6	697.0
33	3	455.1	442.0	42	3	594.7	577.6	51	3	721.1	700.4
33	6	462.3	448.9	42	6	598.2	581.0	51	6	724.6	703.8
33	9	469.3	455.8	42	9	601.7	584.4	51	9	728.2	707.2
34	0	476.3	462.5	43	0	605.2	587.8	52	0	731.7	710.6
34	3	482.4	468.5	43	3	608.7	591.2	52	3	735.2	714.0
34	6	485.8	471.8	43	6	612.3	594.6	52	6	738.7	717.4
34	9	489.3	475.2	43	9	615.8	598.0	52	9	742.2	720.8
35	0	492.8	478.6	44	0	619.3	601.4	53	0	745.7	724.2
35	3	496.3	482.1	44	3	622.8	604.9	53	3	749.2	727.7
35	6	499.9	485.5	44	6	626.3	608.3	53	6	752.7	731.1
35	9	503.4	488.9	44	9	629.8	611.7	53	9	756.3	734.5

Q7024

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SHIP- ALMERIA LYKES
TANK NO- 3-PORT FRS 40-46
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
54	0	759.8	737.9								
54	3	763.3	741.3								
54	6	766.8	744.7								
54	9	770.3	748.1								
55	0	773.8	751.5								
55	3	777.3	754.9								
55	6	780.8	758.4								
55	9	784.4	761.8								

Q7024 100 % SOUNDING 55FT 11-1/8 IN 786.8 TONS SW 764.18 TONS FW

TOTAL SOUNDING TUBE LENGTH 55FT 11-1/2 IN

SHIP- ALMERIA LYKES
TANK NO- 4-STBD FRS 46-52
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
0	0	0.0	0.0	9	0	48.5	47.2	18	0	166.0	161.2
0	3	0.2	0.1	9	3	51.2	49.7	18	3	169.3	164.4
0	6	0.3	0.3	9	6	53.9	52.4	18	6	172.5	167.5
0	9	0.6	0.6	9	9	56.7	55.1	18	9	175.7	170.7
1	0	0.9	0.9	10	0	59.5	57.8	19	0	178.9	173.8
1	3	1.3	1.3	10	3	62.5	60.7	19	3	182.2	176.9
1	6	1.8	1.8	10	6	65.5	63.6	19	6	185.4	180.0
1	9	2.4	2.3	10	9	68.5	66.5	19	9	188.6	183.1
2	0	3.0	2.9	11	0	71.7	69.6	20	0	191.7	186.2
2	3	3.7	3.5	11	3	74.9	72.7	20	3	194.9	189.3
2	6	4.4	4.3	11	6	78.1	75.9	20	6	198.1	192.4
2	9	5.2	5.1	11	9	81.5	79.1	20	9	201.3	195.5
3	0	6.1	5.9	12	0	84.9	82.4	21	0	204.4	198.5
3	3	7.1	6.9	12	3	88.4	85.8	21	3	207.6	201.6
3	6	8.1	7.9	12	6	91.9	89.3	21	6	210.7	204.6
3	9	9.2	9.0	12	9	95.6	92.8	21	9	213.8	207.7
4	0	10.4	10.1	13	0	99.2	96.4	22	0	217.0	210.7
4	3	11.6	11.3	13	3	102.9	100.0	22	3	220.1	213.7
4	6	12.9	12.6	13	6	106.3	103.2	22	6	223.2	216.8
4	9	14.3	13.9	13	9	109.7	106.5	22	9	226.3	219.8
5	0	15.8	15.3	14	0	113.1	109.8	23	0	229.4	222.8
5	3	17.3	16.8	14	3	116.4	113.1	23	3	232.5	225.8
5	6	18.9	18.4	14	6	119.8	116.4	23	6	235.6	228.8
5	9	20.6	20.0	14	9	123.2	119.6	23	9	238.6	231.8
6	0	22.3	21.6	15	0	126.5	122.9	24	0	241.7	234.7
6	3	24.1	23.4	15	3	129.8	126.1	24	3	244.8	237.7
6	6	26.0	25.2	15	6	133.2	129.3	24	6	247.9	240.7
6	9	27.9	27.1	15	9	136.5	132.6	24	9	251.0	243.8
7	0	29.9	29.1	16	0	139.8	135.8	25	0	254.2	246.8
7	3	32.0	31.1	16	3	143.1	139.0	25	3	257.3	249.9
7	6	34.2	33.2	16	6	146.4	142.2	25	6	260.5	253.0
7	9	36.4	35.3	16	9	149.7	145.4	25	9	263.8	256.2
8	0	38.7	37.6	17	0	153.0	148.6	26	0	267.0	259.3
8	3	41.0	39.9	17	3	156.2	151.7	26	3	270.3	262.5
8	6	43.5	42.2	17	6	159.5	154.9	26	6	273.6	265.7
8	9	46.0	44.7	17	9	162.8	158.1	26	9	276.9	268.9

Q7024

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SHIP- ALMERIA LYKES
TANK NO- 4-STBD FRS 46-52
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
27	0	280.3	272.2	36	0	416.4	404.4	45	0	581.3	564.6
27	3	283.6	275.5	36	3	420.7	408.6	45	3	585.2	568.4
27	6	287.0	278.7	36	6	424.9	412.7	45	6	589.1	572.2
27	9	290.4	282.1	36	9	429.1	416.8	45	9	593.0	575.9
28	0	293.9	285.4	37	0	433.4	420.9	46	0	596.9	579.7
28	3	297.3	288.8	37	3	437.6	425.0	46	3	600.8	583.5
28	6	300.8	292.1	37	6	441.8	429.1	46	6	604.7	587.3
28	9	304.3	295.5	37	9	446.1	433.2	46	9	608.6	591.1
29	0	307.8	299.0	38	0	450.3	437.3	47	0	612.6	594.9
29	3	311.4	302.4	38	3	454.7	441.6	47	3	616.7	599.0
29	6	315.0	305.9	38	6	460.1	446.9	47	6	620.9	603.0
29	9	318.6	309.4	38	9	465.6	452.2	47	9	625.0	607.0
30	0	322.2	312.9	39	0	471.0	457.5	48	0	629.2	611.1
30	3	325.8	316.5	39	3	476.5	462.8	48	3	633.3	615.1
30	6	329.5	320.0	39	6	482.0	468.1	48	6	637.5	619.1
30	9	333.2	323.6	39	9	487.4	473.4	48	9	641.6	623.1
31	0	336.9	327.2	40	0	492.9	478.7	49	0	645.8	627.2
31	3	340.7	330.9	40	3	498.3	484.0	49	3	649.9	631.2
31	6	344.4	334.5	40	6	503.8	489.3	49	6	654.1	635.2
31	9	348.2	338.2	40	9	509.2	494.6	49	9	658.2	639.2
32	0	352.0	341.9	41	0	514.7	499.9	50	0	662.3	643.3
32	3	355.9	345.6	41	3	520.1	505.2	50	3	666.5	647.3
32	6	359.7	349.4	41	6	525.6	510.5	50	6	670.6	651.3
32	9	363.6	353.1	41	9	530.6	515.4	50	9	674.8	655.4
33	0	367.5	356.9	42	0	534.5	519.1	51	0	678.9	659.4
33	3	371.4	360.7	42	3	538.4	522.9	51	3	683.1	663.4
33	6	375.4	364.6	42	6	542.3	526.7	51	6	687.2	667.4
33	9	379.3	368.4	42	9	546.2	530.5	51	9	691.4	671.5
34	0	383.3	372.3	43	0	550.1	534.3	52	0	695.5	675.5
34	3	387.4	376.2	43	3	554.0	538.1				
34	6	391.4	380.1	43	6	557.9	541.9				
34	9	395.5	384.1	43	9	561.8	545.6				
35	0	399.6	388.1	44	0	565.7	549.4				
35	3	403.7	392.1	44	3	569.6	553.2				
35	6	408.0	396.2	44	6	573.5	557.0				
35	9	412.2	400.3	44	9	577.4	560.8				

Q7024 100 % SOUNDING 52FT 2-3/8 IN 698.9 TONS SW 678.73 TONS FW

TOTAL SOUNDING TUBE LENGTH 55FT 0-7/8 IN

SHIP- ALMERIA LYKES
TANK NO- 4-PORT FRS 46-52
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
0	0	1.9	1.9	9	0	53.7	52.1	18	0	173.2	168.2
0	3	3.0	2.9	9	3	56.9	55.3	18	3	176.5	171.4
0	6	4.2	4.0	9	6	60.2	58.4	18	6	179.8	174.6
0	9	5.3	5.1	9	9	63.4	61.6	18	9	183.0	177.8
1	0	6.4	6.2	10	0	66.6	64.7	19	0	186.3	181.0
1	3	7.5	7.3	10	3	69.9	67.9	19	3	189.6	184.1
1	6	8.6	8.4	10	6	73.1	71.0	19	6	192.9	187.3
1	9	9.7	9.5	10	9	76.3	74.1	19	9	196.1	190.5
2	0	10.8	10.5	11	0	79.6	77.3	20	0	199.3	193.6
2	3	12.0	11.6	11	3	82.8	80.4	20	3	202.6	196.7
2	6	13.1	12.7	11	6	86.0	83.6	20	6	205.8	199.9
2	9	14.2	13.8	11	9	89.3	86.7	20	9	209.0	203.0
3	0	15.3	14.9	12	0	92.5	89.9	21	0	212.2	206.1
3	3	16.4	16.0	12	3	95.8	93.0	21	3	215.4	209.2
3	6	17.5	17.0	12	6	99.0	96.1	21	6	218.6	212.3
3	9	18.7	18.1	12	9	102.2	99.3	21	9	221.8	215.4
4	0	19.8	19.2	13	0	105.5	102.4	22	0	225.0	218.5
4	3	20.9	20.3	13	3	108.9	105.8	22	3	228.2	221.6
4	6	22.0	21.4	13	6	112.4	109.1	22	6	231.3	224.7
4	9	23.1	22.5	13	9	115.8	112.5	22	9	234.5	227.7
5	0	24.2	23.5	14	0	119.3	115.8	23	0	237.6	230.8
5	3	25.4	24.6	14	3	122.7	119.2	23	3	240.8	233.8
5	6	26.5	25.7	14	6	126.1	122.5	23	6	243.9	236.9
5	9	27.6	26.8	14	9	129.5	125.8	23	9	247.0	239.9
6	0	28.7	27.9	15	0	132.9	129.1	24	0	250.2	243.0
6	3	29.8	29.0	15	3	136.3	132.4	24	3	253.4	246.1
6	6	30.9	30.0	15	6	139.7	135.7	24	6	256.6	249.2
6	9	32.1	31.1	15	9	143.1	139.0	24	9	259.8	252.3
7	0	33.2	32.2	16	0	146.5	142.3	25	0	263.1	255.5
7	3	34.3	33.3	16	3	149.8	145.5	25	3	266.4	258.7
7	6	35.4	34.4	16	6	153.2	148.8	25	6	269.7	261.9
7	9	37.5	36.4	16	9	156.5	152.0	25	9	273.0	265.1
8	0	40.7	39.6	17	0	159.9	155.3	26	0	276.4	268.4
8	3	44.0	42.7	17	3	163.2	158.5	26	3	279.8	271.7
8	6	47.2	45.8	17	6	166.5	161.8	26	6	283.2	275.0
8	9	50.4	49.0	17	9	169.9	165.0	26	9	286.6	278.3

Q7024

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SHIP- ALMERIA LYKES
TANK NO- 4-PORT FRS 46-52
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW	FT	IN	TONS SW	TONS FW
27	0	290.0	281.7	36	0	430.9	418.5	45	0	583.9	567.1
27	3	293.5	285.1	36	3	435.3	422.7	45	3	588.0	571.1
27	6	297.0	288.5	36	6	439.6	426.9	45	6	592.2	575.1
27	9	300.6	291.9	36	9	443.9	431.1	45	9	596.3	579.1
28	0	304.1	295.4	37	0	448.2	435.3	46	0	600.4	583.1
28	3	307.7	298.8	37	3	452.6	439.5	46	3	604.5	587.1
28	6	311.3	302.3	37	6	456.9	443.7	46	6	608.6	591.1
28	9	314.9	305.9	37	9	461.2	447.9	46	9	612.8	595.1
29	0	318.6	309.4	38	0	465.5	452.1	47	0	616.9	599.2
29	3	322.2	313.0	38	3	469.8	456.3	47	3	621.1	603.2
29	6	325.9	316.6	38	6	474.2	460.5	47	6	625.2	607.2
29	9	329.7	320.2	38	9	478.5	464.7	47	9	629.4	611.3
30	0	333.4	323.8	39	0	482.8	468.9	48	0	633.5	615.3
30	3	337.2	327.5	39	3	487.1	473.1	48	3	637.7	619.3
30	6	341.0	331.2	39	6	491.5	477.3	48	6	641.8	623.3
30	9	344.8	334.9	39	9	495.8	481.5	48	9	646.0	627.4
31	0	348.6	338.6	40	0	500.1	485.7	49	0	650.1	631.4
31	3	352.5	342.4	40	3	504.4	489.9	49	3	654.3	635.4
31	6	356.4	346.1	40	6	508.7	494.1	49	6	658.4	639.5
31	9	360.3	350.0	40	9	513.1	498.3	49	9	662.6	643.5
32	0	364.3	353.8	41	0	517.4	502.5	50	0	666.7	647.5
32	3	368.2	357.6	41	3	522.3	507.3	50	3	670.9	651.6
32	6	372.2	361.5	41	6	527.7	512.5	50	6	675.0	655.6
32	9	376.2	365.4	41	9	533.1	517.8	50	9	679.2	659.6
33	0	380.3	369.3	42	0	537.0	521.5	51	0	683.3	663.7
33	3	384.3	373.3	42	3	540.9	525.3	51	3	687.5	667.7
33	6	388.4	377.2	42	6	544.7	529.0	51	6	691.6	671.7
33	9	392.5	381.2	42	9	548.6	532.8	51	9	695.8	675.8
34	0	396.7	385.3	43	0	552.5	536.6	52	0	699.9	679.8
34	3	400.8	389.3	43	3	556.3	540.3				
34	6	405.0	393.4	43	6	560.2	544.1				
34	9	409.3	397.5	43	9	564.1	547.8				
35	0	413.7	401.7	44	0	568.0	551.6				
35	3	418.0	405.9	44	3	571.8	555.4				
35	6	422.3	410.1	44	6	575.7	559.1				
35	9	426.6	414.3	44	9	579.8	563.1				

Q7024 100 % SOUNDING 52FT 1-5/8 IN 702.3 TONS SW 682.08 TONS FW

TOTAL SOUNDING TUBE LENGTH 55FT 0-3/8 IN

GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO.529-01-08 GD NO.30210-03x2 SH 23-30 OF 113 FRAME ①2 3 4

SHIP- ALMERIA LYKES
TANK NO- 5-STBD FRS 52-58
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	0.5	0.5		9	0	121.3	117.8		18	0	329.9	320.4	
0	3	2.3	2.2		9	3	126.3	122.7		18	3	336.4	326.7	
0	6	4.2	4.0		9	6	131.5	127.7		18	6	343.0	333.1	
0	9	6.1	5.9		9	9	136.7	132.8		18	9	349.6	339.5	
1	0	8.1	7.9		10	0	142.0	137.9		19	0	356.2	345.9	
1	3	10.3	10.0		10	3	147.4	143.2		19	3	362.9	352.4	
1	6	12.5	12.1		10	6	152.9	148.5		19	6	369.6	358.9	
1	9	14.8	14.3		10	9	158.2	153.7		19	9	376.3	365.5	
2	0	17.2	16.7		11	0	163.6	158.9		20	0	383.1	372.1	
2	3	19.7	19.1		11	3	169.0	164.1		20	3	389.9	378.7	
2	6	22.2	21.6		11	6	174.4	169.4		20	6	396.8	385.4	
2	9	24.9	24.2		11	9	179.9	174.7		20	9	404.1	392.4	
3	0	27.7	26.9		12	0	185.5	180.1		21	0	412.2	400.3	
3	3	30.5	29.6		12	3	191.0	185.5		21	3	420.2	408.1	
3	6	33.5	32.5		12	6	196.6	191.0		21	6	428.4	416.0	
3	9	36.5	35.5		12	9	202.3	196.4		21	9	436.5	423.9	
4	0	39.6	38.5		13	0	207.9	202.0		22	0	444.7	431.9	
4	3	42.8	41.6		13	3	213.7	207.5		22	3	452.9	439.8	
4	6	46.2	44.8		13	6	219.4	213.1		22	6	461.1	447.8	
4	9	49.6	48.1		13	9	225.2	218.7		22	9	469.3	455.8	
5	0	53.0	51.5		14	0	231.1	224.4		23	0	477.6	463.9	
5	3	56.6	55.0		14	3	236.9	230.1		23	3	485.9	472.0	
5	6	60.3	58.6		14	6	242.9	235.9		23	6	494.3	480.1	
5	9	64.1	62.2		14	9	248.8	241.7		23	9	502.7	488.2	
6	0	67.9	66.0		15	0	254.8	247.5		24	0	511.1	496.4	
6	3	71.9	69.8		15	3	260.9	253.3		24	3	519.5	504.6	
6	6	75.9	73.7		15	6	266.9	259.3		24	6	528.0	512.8	
6	9	80.0	77.7		15	9	273.1	265.2		24	9	536.5	521.0	
7	0	84.3	81.8		16	0	279.2	271.2		25	0	545.0	529.3	
7	3	88.6	86.0		16	3	285.4	277.2		25	3	553.6	537.6	
7	6	93.0	90.3		16	6	291.6	283.2		25	6	562.2	546.0	
7	9	97.5	94.7		16	9	297.9	289.3		25	9	571.5	555.0	
8	0	102.0	99.1		17	0	304.2	295.5		26	0	580.8	564.1	
8	3	106.7	103.7		17	3	310.6	301.6		26	3	590.2	573.2	
8	6	111.5	108.3		17	6	317.0	307.9		26	6	599.6	582.4	
8	9	116.3	113.0		17	9	323.4	314.1		26	9	609.1	591.6	

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CONTINUED ON NEXT PAGE

SHIP- ALMERIA LYKES
TANK NO- 5-STBD FRS 52-58
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	618.6	600.8		36	0	977.0	948.8		45	0	1181.7	1147.7	
27	3	628.1	610.0		36	3	985.7	957.3		45	3	1186.8	1152.6	
27	6	637.7	619.3		36	6	994.3	965.6		45	6	1191.8	1157.5	
27	9	647.3	628.7		36	9	1002.7	973.9		45	9	1196.8	1162.3	
28	0	656.9	638.0		37	0	1011.1	982.0		46	0	1201.8	1167.2	
28	3	666.6	647.4		37	3	1019.4	990.1		46	3	1206.9	1172.1	
28	6	676.3	656.8		37	6	1027.6	998.0		46	6	1211.9	1177.0	
28	9	686.1	666.3		37	9	1035.7	1005.9		46	9	1216.9	1181.9	
29	0	695.8	675.8		38	0	1041.0	1011.0		47	0	1221.9	1186.7	
29	3	705.6	685.3		38	3	1046.0	1015.9		47	3	1227.0	1191.6	
29	6	715.5	694.9		38	6	1051.0	1020.8		47	6	1232.0	1196.5	
29	9	725.4	704.5		38	9	1056.1	1025.7		47	9	1237.0	1201.4	
30	0	736.5	715.3		39	0	1061.1	1030.5		48	0	1242.0	1206.3	
30	3	747.7	726.2		39	3	1066.1	1035.4		48	3	1247.1	1211.2	
30	6	758.9	737.0		39	6	1071.1	1040.3		48	6	1252.1	1216.0	
30	9	769.9	747.7		39	9	1076.2	1045.2		48	9	1257.1	1220.9	
31	0	780.8	758.3		40	0	1081.2	1050.1		49	0	1262.1	1225.8	
31	3	791.6	768.8		40	3	1086.2	1054.9		49	3	1267.2	1230.7	
31	6	802.3	779.2		40	6	1091.3	1059.8		49	6	1272.2	1235.6	
31	9	812.9	789.5		40	9	1096.3	1064.7		49	9	1277.2	1240.4	
32	0	823.4	799.7		41	0	1101.3	1069.6		50	0	1282.3	1245.3	
32	3	833.8	809.8		41	3	1106.3	1074.5		50	3	1287.3	1250.2	
32	6	844.1	819.7		41	6	1111.4	1079.4		50	6	1292.3	1255.1	
32	9	854.2	829.6		41	9	1116.4	1084.2		50	9	1297.3	1260.0	
33	0	864.3	839.4		42	0	1121.4	1089.1		51	0	1302.4	1264.9	
33	3	874.3	849.1		42	3	1126.4	1094.0		51	3	1307.4	1269.7	
33	6	884.1	858.7		42	6	1131.5	1098.9		51	6	1312.4	1274.6	
33	9	893.9	868.1		42	9	1136.5	1103.8		51	9	1317.4	1279.5	
34	0	903.5	877.5		43	0	1141.5	1108.6		52	0	1322.5	1284.4	
34	3	913.1	886.8		43	3	1146.5	1113.5		52	3	1327.5	1289.3	
34	6	922.5	896.0		43	6	1151.6	1118.4		52	6	1332.5	1294.1	
34	9	931.9	905.0		43	9	1156.6	1123.3		52	9	1337.5	1299.0	
35	0	941.1	914.0		44	0	1161.6	1128.2		53	0	1342.6	1303.9	
35	3	950.2	922.8		44	3	1166.6	1133.1		53	3	1347.6	1308.8	
35	6	959.2	931.6		44	6	1171.7	1137.9		53	6	1352.6	1313.7	
35	9	968.1	940.3		44	9	1176.7	1142.8		53	9	1357.6	1318.6	

Q 7024

CONTINUED ON NEXT PAGE

SHIP- ALMERIA LYKES
TANK NO- 5-STBD FRS 52-58
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
54	0	1362.7	1323.4											
54	3	1367.7	1328.3											
54	6	1372.7	1333.2											
54	9	1377.8	1338.1											
55	0	1382.8	1343.0											
55	3	1387.8	1347.8											
55	6	1392.8	1352.7											
55	9	1397.9	1357.6											
56	0	1402.9	1362.5											
56	3	1407.9	1367.4											
56	6	1412.9	1372.2											
56	9	1418.0	1377.1											
57	0	1423.0	1382.0											
57	3	1428.0	1386.9											
57	6	1433.0	1391.8											
57	9	1438.1	1396.7											
58	0	1443.1	1401.5											
58	3	1448.1	1406.4											
58	6	1453.1	1411.3											

Q 7024 100 % SOUNDING 58FT 8-3/8 IN 1457.1 TONS SW 1415.14 TONS FW

TOTAL SOUNDING TUBE LENGTH 58FT 8-3/4 IN

SHIP- ALMERIA LYKES
TANK NO- 5-PORT FRS 52-58
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	0.7	0.6		9	0	134.4	130.5		18	0	359.8	349.4	
0	3	2.4	2.3		9	3	140.2	136.1		18	3	366.8	356.2	
0	6	4.2	4.1		9	6	146.1	141.9		18	6	373.8	363.0	
0	9	6.2	6.0		9	9	152.1	147.7		18	9	380.8	369.8	
1	0	8.3	8.0		10	0	158.3	153.7		19	0	387.9	376.7	
1	3	10.5	10.2		10	3	164.0	159.3		19	3	395.0	383.6	
1	6	12.8	12.4		10	6	169.7	164.8		19	6	402.1	390.6	
1	9	15.2	14.7		10	9	175.4	170.4		19	9	409.3	397.6	
2	0	17.7	17.2		11	0	181.2	176.0		20	0	416.6	404.6	
2	3	20.3	19.7		11	3	187.1	181.7		20	3	423.8	411.6	
2	6	23.1	22.4		11	6	193.0	187.4		20	6	431.1	418.7	
2	9	25.9	25.2		11	9	198.9	193.1		20	9	438.4	425.8	
3	0	28.9	28.1		12	0	204.8	198.9		21	0	445.7	432.9	
3	3	32.0	31.1		12	3	210.8	204.8		21	3	453.1	440.0	
3	6	35.2	34.2		12	6	216.9	210.6		21	6	460.5	447.2	
3	9	38.5	37.4		12	9	222.9	216.5		21	9	467.9	454.4	
4	0	42.0	40.8		13	0	229.1	222.5		22	0	475.3	461.6	
4	3	45.5	44.2		13	3	235.2	228.4		22	3	482.7	468.8	
4	6	49.2	47.7		13	6	241.4	234.5		22	6	490.2	476.1	
4	9	52.9	51.4		13	9	247.6	240.5		22	9	497.7	483.4	
5	0	56.8	55.2		14	0	253.9	246.6		23	0	505.2	490.7	
5	3	60.8	59.1		14	3	260.2	252.7		23	3	512.8	498.0	
5	6	64.9	63.1		14	6	266.6	258.9		23	6	520.4	505.4	
5	9	69.1	67.2		14	9	273.0	265.1		23	9	529.3	514.0	
6	0	73.5	71.4		15	0	279.4	271.4		24	0	538.2	522.7	
6	3	77.9	75.7		15	3	285.9	277.7		24	3	547.1	531.4	
6	6	82.5	80.1		15	6	292.4	284.0		24	6	556.1	540.1	
6	9	87.2	84.7		15	9	299.0	290.4		24	9	565.1	548.8	
7	0	92.0	89.3		16	0	305.6	296.8		25	0	574.2	557.6	
7	3	96.9	94.1		16	3	312.2	303.2		25	3	583.2	566.4	
7	6	101.9	98.9		16	6	318.9	309.7		25	6	592.3	575.3	
7	9	107.0	103.9		16	9	325.6	316.2		25	9	601.5	584.2	
8	0	112.3	109.0		17	0	332.4	322.8		26	0	610.7	593.1	
8	3	117.6	114.2		17	3	339.2	329.4		26	3	619.9	602.0	
8	6	123.1	119.5		17	6	346.0	336.0		26	6	629.1	611.0	
8	9	128.7	125.0		17	9	352.9	342.7		26	9	638.4	620.0	

Q 7024

CONTINUED ON NEXT PAGE

SHIP- ALMERIA LYKES
TANK NO- 5-PORT FRS 52-58
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	647.7	629.1		36	0	998.2	969.4		45	0	1197.6	1163.1	
27	3	657.1	638.2		36	3	1006.8	977.8		45	3	1202.7	1168.0	
27	6	666.5	647.3		36	6	1015.3	986.0		45	6	1207.7	1172.9	
27	9	675.9	656.4		36	9	1023.7	994.2		45	9	1212.7	1177.8	
28	0	685.3	665.6		37	0	1032.0	1002.2		46	0	1217.8	1182.7	
28	3	694.8	674.8		37	3	1040.2	1010.2		46	3	1222.8	1187.6	
28	6	704.3	684.0		37	6	1046.7	1016.6		46	6	1227.8	1192.5	
28	9	713.9	693.3		37	9	1051.7	1021.5		46	9	1232.8	1197.3	
29	0	723.4	702.6		38	0	1056.8	1026.3		47	0	1237.9	1202.2	
29	3	733.1	711.9		38	3	1061.8	1031.2		47	3	1242.9	1207.1	
29	6	743.5	722.1		38	6	1066.8	1036.1		47	6	1247.9	1212.0	
29	9	753.8	732.1		38	9	1071.9	1041.0		47	9	1253.0	1216.9	
30	0	764.1	742.1		39	0	1076.9	1045.9		48	0	1258.0	1221.8	
30	3	774.3	752.0		39	3	1081.9	1050.8		48	3	1263.0	1226.7	
30	6	784.4	761.8		39	6	1087.0	1055.7		48	6	1268.1	1231.5	
30	9	794.4	771.6		39	9	1092.0	1060.5		48	9	1273.1	1236.4	
31	0	805.0	781.8		40	0	1097.0	1065.4		49	0	1278.1	1241.3	
31	3	815.6	792.1		40	3	1102.0	1070.3		49	3	1283.1	1246.2	
31	6	826.1	802.3		40	6	1107.1	1075.2		49	6	1288.2	1251.1	
31	9	836.5	812.4		40	9	1112.1	1080.1		49	9	1293.2	1256.0	
32	0	846.9	822.5		41	0	1117.1	1085.0		50	0	1298.2	1260.9	
32	3	857.1	832.4		41	3	1122.2	1089.9		50	3	1303.3	1265.7	
32	6	867.2	842.2		41	6	1127.2	1094.7		50	6	1308.3	1270.6	
32	9	877.2	852.0		41	9	1132.2	1099.6		50	9	1313.3	1275.5	
33	0	887.1	861.6		42	0	1137.3	1104.5		51	0	1318.4	1280.4	
33	3	896.9	871.1		42	3	1142.3	1109.4		51	3	1323.4	1285.3	
33	6	906.7	880.6		42	6	1147.3	1114.3		51	6	1328.4	1290.2	
33	9	916.3	889.9		42	9	1152.4	1119.2		51	9	1333.5	1295.1	
34	0	925.8	899.1		43	0	1157.4	1124.1		52	0	1338.5	1299.9	
34	3	935.2	908.3		43	3	1162.4	1128.9		52	3	1343.5	1304.8	
34	6	944.5	917.3		43	6	1167.4	1133.8		52	6	1348.5	1309.7	
34	9	953.7	926.2		43	9	1172.5	1138.7		52	9	1353.6	1314.6	
35	0	962.8	935.1		44	0	1177.5	1143.6		53	0	1358.6	1319.5	
35	3	971.8	943.8		44	3	1182.5	1148.5		53	3	1363.6	1324.4	
35	6	980.7	952.5		44	6	1187.6	1153.4		53	6	1368.7	1329.3	
35	9	989.5	961.0		44	9	1192.6	1158.3		53	9	1373.7	1334.1	

Q 7024

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SHIP- ALMERIA LYKES
TANK NO- 5-PORT FRS 52-58
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
54	0	1378.7	1339.0											
54	3	1383.8	1343.9											
54	6	1388.8	1348.8											
54	9	1393.8	1353.7											
55	0	1398.8	1358.6											
55	3	1403.9	1363.5											
55	6	1408.9	1368.3											
55	9	1413.9	1373.2											
56	0	1419.0	1378.1											
56	3	1424.0	1383.0											
56	6	1429.0	1387.9											
56	9	1434.1	1392.8											
57	0	1439.1	1397.7											
57	3	1444.1	1402.5											
57	6	1449.2	1407.4											
57	9	1454.2	1412.3											
58	0	1459.2	1417.2											
58	3	1464.2	1422.1											

Q 7024 100 % SOUNDING 58FT 3-3/8 IN 1464.9 TONS SW 1422.67 TONS FW

TOTAL SOUNDING TUBE LENGTH 58FT 3-3/4 IN

SHIP- ALMERIA LYKES
TANK NO- 6-STBD FRS 58-64
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	4.0	3.9		9	0	191.7	186.2		18	0	445.2	432.4	
0	3	8.0	7.7		9	3	198.2	192.5		18	3	452.6	439.6	
0	6	12.0	11.6		9	6	204.9	199.0		18	6	460.1	446.9	
0	9	16.1	15.6		9	9	211.6	205.5		18	9	467.6	454.2	
1	0	20.2	19.6		10	0	218.3	212.1		19	0	475.1	461.5	
1	3	24.5	23.8		10	3	225.2	218.7		19	3	482.7	468.8	
1	6	28.8	27.9		10	6	232.1	225.4		19	6	490.3	476.2	
1	9	33.1	32.2		10	9	239.0	232.1		19	9	497.9	483.5	
2	0	37.6	36.5		11	0	245.8	238.7		20	0	505.5	490.9	
2	3	42.1	40.9		11	3	252.6	245.3		20	3	513.1	498.4	
2	6	46.7	45.4		11	6	259.4	252.0		20	6	520.8	505.8	
2	9	51.4	49.9		11	9	266.3	258.6		20	9	528.5	513.3	
3	0	56.1	54.5		12	0	273.2	265.3		21	0	536.2	520.8	
3	3	60.9	59.2		12	3	280.1	272.0		21	3	543.9	528.3	
3	6	65.8	63.9		12	6	287.0	278.7		21	6	551.7	535.8	
3	9	70.8	68.8		12	9	293.9	285.5		21	9	559.4	543.3	
4	0	75.8	73.6		13	0	300.9	292.2		22	0	567.2	550.9	
4	3	80.9	78.6		13	3	307.9	299.0		22	3	575.0	558.4	
4	6	86.1	83.6		13	6	314.9	305.9		22	6	582.8	566.0	
4	9	91.4	88.7		13	9	322.0	312.7		22	9	590.6	573.6	
5	0	96.7	93.9		14	0	329.0	319.5		23	0	598.4	581.1	
5	3	102.1	99.1		14	3	336.1	326.4		23	3	606.2	588.7	
5	6	107.5	104.4		14	6	343.2	333.3		23	6	614.0	596.3	
5	9	113.1	109.8		14	9	350.4	340.3		23	9	621.8	603.9	
6	0	118.7	115.3		15	0	357.5	347.2		24	0	629.7	611.6	
6	3	124.4	120.8		15	3	364.7	354.2		24	3	637.5	619.2	
6	6	130.1	126.4		15	6	371.9	361.2		24	6	645.4	626.8	
6	9	136.0	132.0		15	9	379.1	368.2		24	9	653.3	634.5	
7	0	141.9	137.8		16	0	386.4	375.2		25	0	661.2	642.1	
7	3	147.8	143.6		16	3	393.6	382.3		25	3	669.1	649.8	
7	6	153.9	149.4		16	6	400.9	389.4		25	6	677.0	657.5	
7	9	160.0	155.4		16	9	408.2	396.5		25	9	684.9	665.2	
8	0	166.2	161.4		17	0	415.6	403.6		26	0	692.8	672.9	
8	3	172.5	167.5		17	3	423.0	410.8		26	3	700.8	680.6	
8	6	178.8	173.6		17	6	430.3	417.9		26	6	708.7	688.3	
8	9	185.2	179.9		17	9	437.7	425.1		26	9	716.7	696.0	

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SHIP- ALMERIA LYKES
TANK NO- 6-STBD FRS 58-64
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	724.6	703.8		36	0	1075.7	1044.7		45	0	1347.6	1308.8	
27	3	732.6	711.5		36	3	1086.6	1055.3		45	3	1352.7	1313.8	
27	6	740.6	719.3		36	6	1097.6	1066.0		45	6	1357.8	1318.7	
27	9	748.6	727.1		36	9	1108.5	1076.6		45	9	1362.9	1323.6	
28	0	756.6	734.8		37	0	1119.4	1087.1		46	0	1368.0	1328.6	
28	3	764.7	742.6		37	3	1130.2	1097.7		46	3	1373.0	1333.5	
28	6	772.7	750.4		37	6	1141.1	1108.2		46	6	1378.1	1338.4	
28	9	780.7	758.2		37	9	1152.0	1118.8		46	9	1383.2	1343.4	
29	0	788.8	766.1		38	0	1163.0	1129.5		47	0	1388.3	1348.3	
29	3	796.8	773.9		38	3	1173.9	1140.1		47	3	1393.4	1353.3	
29	6	804.9	781.7		38	6	1184.8	1150.6		47	6	1398.5	1358.2	
29	9	813.6	790.1		38	9	1195.6	1161.2		47	9	1403.5	1363.1	
30	0	823.6	799.8		39	0	1206.5	1171.8		48	0	1408.6	1368.1	
30	3	833.6	809.5		39	3	1217.3	1182.3		48	3	1413.7	1373.0	
30	6	843.6	819.3		39	6	1228.2	1192.8		48	6	1418.8	1377.9	
30	9	853.6	829.0		39	9	1238.9	1203.3		48	9	1423.9	1382.9	
31	0	863.6	838.8		40	0	1246.0	1210.1		49	0	1429.0	1387.8	
31	3	873.7	848.5		40	3	1251.1	1215.0		49	3	1434.0	1392.7	
31	6	883.8	858.3		40	6	1256.1	1220.0		49	6	1439.1	1397.7	
31	9	893.9	868.1		40	9	1261.2	1224.9		49	9	1444.2	1402.6	
32	0	904.0	877.9		41	0	1266.3	1229.8		50	0	1449.3	1407.6	
32	3	914.2	887.9		41	3	1271.4	1234.8		50	3	1454.4	1412.5	
32	6	924.5	897.9		41	6	1276.5	1239.7		50	6	1459.5	1417.4	
32	9	934.7	907.8		41	9	1281.6	1244.7		50	9	1464.5	1422.4	
33	0	944.9	917.7		42	0	1286.6	1249.6		51	0	1469.6	1427.3	
33	3	955.1	927.6		42	3	1291.7	1254.5		51	3	1474.7	1432.2	
33	6	965.3	937.5		42	6	1296.8	1259.5		51	6	1479.8	1437.2	
33	9	976.2	948.1		42	9	1301.9	1264.4		51	9	1484.9	1442.1	
34	0	987.4	958.9		43	0	1307.0	1269.3		52	0	1489.9	1447.0	
34	3	998.5	969.7		43	3	1312.1	1274.3		52	3	1495.0	1452.0	
34	6	1009.6	980.5		43	6	1317.1	1279.2		52	6	1500.1	1456.9	
34	9	1020.6	991.2		43	9	1322.2	1284.1		52	9	1505.2	1461.9	
35	0	1031.7	1002.0		44	0	1327.3	1289.1		53	0	1510.3	1466.8	
35	3	1042.7	1012.7		44	3	1332.4	1294.0		53	3	1515.4	1471.7	
35	6	1053.7	1023.4		44	6	1337.5	1299.0		53	6	1520.4	1476.7	
35	9	1064.7	1034.1		44	9	1342.6	1303.9		53	9	1525.5	1481.6	

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GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO. 529-01-08 GD NO. 30210-03×2 SH 31-38 OF 113 FRAME ① 2 3 4

SHIP- ALMERIA LYKES
TANK NO- 6-STBD FRS 58-64
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
54	0	1530.6	1486.5											
54	3	1535.7	1491.5											
54	6	1540.8	1496.4											
54	9	1545.9	1501.3											
55	0	1550.9	1506.3											
55	3	1556.0	1511.2											
55	6	1561.1	1516.2											
55	9	1566.2	1521.1											
56	0	1571.3	1526.0											
56	3	1576.4	1531.0											
56	6	1581.4	1535.9											
56	9	1586.5	1540.8											
57	0	1591.6	1545.8											
57	3	1596.7	1550.7											
57	6	1601.8	1555.6											
57	9	1606.8	1560.6											
58	0	1611.9	1565.5											
58	3	1617.0	1570.5											
58	6	1622.1	1575.4											
58	9	1627.2	1580.3											
59	0	1632.3	1585.3											
59	3	1637.3	1590.2											
59	6	1642.4	1595.1											
59	9	1647.5	1600.1											
60	0	1652.6	1605.0											
60	3	1657.7	1609.9											
60	6	1662.8	1614.9											
60	9	1667.8	1619.8											
61	0	1672.9	1624.7											
61	3	1678.0	1629.7											
61	6	1683.1	1634.6											

Q 7024 100 % SOUNDING 61FT 6-5/8 IN 1684.1 TONS SW 1635.65 TONS FW

TOTAL SOUNDING TUBE LENGTH 61FT 7 IN

SHIP- ALMERIA LYKES
TANK NO- 6-PORT FRS 58-64
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	2.4	2.4		9	0	229.3	222.7		18	0	529.1	513.9	
0	3	6.8	6.6		9	3	237.6	230.8		18	3	537.9	522.4	
0	6	11.3	11.0		9	6	245.8	238.7		18	6	546.7	531.0	
0	9	15.9	15.4		9	9	253.7	246.4		18	9	555.6	539.6	
1	0	20.6	20.0		10	0	261.6	254.1		19	0	564.5	548.2	
1	3	25.4	24.7		10	3	269.6	261.8		19	3	573.4	556.8	
1	6	30.3	29.4		10	6	277.5	269.6		19	6	582.3	565.5	
1	9	35.3	34.3		10	9	285.5	277.3		19	9	591.2	574.2	
2	0	40.5	39.3		11	0	293.6	285.1		20	0	600.1	582.9	
2	3	45.7	44.4		11	3	301.6	292.9		20	3	609.1	591.6	
2	6	51.1	49.6		11	6	309.7	300.8		20	6	618.1	600.3	
2	9	56.6	54.9		11	9	317.8	308.6		20	9	627.0	609.0	
3	0	62.2	60.4		12	0	325.9	316.5		21	0	636.0	617.7	
3	3	67.9	65.9		12	3	334.1	324.5		21	3	645.0	626.5	
3	6	73.7	71.5		12	6	342.3	332.4		21	6	654.1	635.2	
3	9	79.6	77.3		12	9	350.5	340.4		21	9	663.1	644.0	
4	0	85.6	83.1		13	0	358.7	348.4		22	0	672.2	652.8	
4	3	91.7	89.1		13	3	367.0	356.4		22	3	681.2	661.6	
4	6	98.0	95.2		13	6	375.3	364.5		22	6	690.3	670.4	
4	9	104.3	101.3		13	9	383.6	372.6		22	9	699.4	679.2	
5	0	110.8	107.6		14	0	391.9	380.7		23	0	708.5	688.1	
5	3	117.4	114.0		14	3	400.3	388.8		23	3	717.6	696.9	
5	6	124.1	120.5		14	6	408.7	396.9		23	6	726.7	705.8	
5	9	130.9	127.1		14	9	417.1	405.1		23	9	735.9	714.7	
6	0	137.8	133.8		15	0	425.6	413.3		24	0	745.0	723.6	
6	3	144.8	140.6		15	3	434.1	421.6		24	3	754.2	732.5	
6	6	151.9	147.6		15	6	442.6	429.8		24	6	763.4	741.4	
6	9	159.2	154.6		15	9	451.1	438.1		24	9	772.6	750.3	
7	0	166.5	161.7		16	0	459.7	446.4		25	0	781.8	759.3	
7	3	174.0	169.0		16	3	468.3	454.8		25	3	791.0	768.2	
7	6	181.6	176.3		16	6	476.9	463.1		25	6	800.3	777.2	
7	9	189.2	183.8		16	9	485.5	471.5		25	9	809.5	786.2	
8	0	197.0	191.4		17	0	494.2	479.9		26	0	818.8	795.2	
8	3	204.9	199.0		17	3	502.9	488.4		26	3	828.1	804.2	
8	6	212.9	206.8		17	6	511.6	496.8		26	6	837.4	813.2	
8	9	221.1	214.7		17	9	520.3	505.3		26	9	846.7	822.3	

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SHIP- ALMERIA LYKES
TANK NO- 6-PORT FRS 58-64
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	856.0	831.3		36	0	1204.8	1170.2		45	0	1412.7	1372.0	
27	3	865.3	840.4		36	3	1215.6	1180.6		45	3	1417.8	1377.0	
27	6	874.7	849.5		36	6	1226.4	1191.1		45	6	1422.9	1381.9	
27	9	884.0	858.6		36	9	1237.2	1201.5		45	9	1428.0	1386.9	
28	0	893.4	867.7		37	0	1247.9	1211.9		46	0	1433.2	1391.9	
28	3	902.8	876.8		37	3	1253.9	1217.8		46	3	1438.3	1396.9	
28	6	912.2	886.0		37	6	1259.0	1222.7		46	6	1443.4	1401.8	
28	9	921.8	895.2		37	9	1264.1	1227.7		46	9	1448.5	1406.8	
29	0	931.3	904.5		38	0	1269.2	1232.7		47	0	1453.7	1411.8	
29	3	940.8	913.7		38	3	1274.3	1237.7		47	3	1458.8	1416.8	
29	6	950.3	922.9		38	6	1279.5	1242.6		47	6	1463.9	1421.8	
29	9	959.8	932.1		38	9	1284.6	1247.6		47	9	1469.0	1426.7	
30	0	969.2	941.3		39	0	1289.7	1252.6		48	0	1474.2	1431.7	
30	3	978.7	950.5		39	3	1294.8	1257.6		48	3	1479.3	1436.7	
30	6	988.1	959.7		39	6	1300.0	1262.5		48	6	1484.4	1441.7	
30	9	997.6	968.8		39	9	1305.1	1267.5		48	9	1489.5	1446.6	
31	0	1007.0	978.0		40	0	1310.2	1272.5		49	0	1494.6	1451.6	
31	3	1016.4	987.1		40	3	1315.3	1277.5		49	3	1499.8	1456.6	
31	6	1025.8	996.2		40	6	1320.5	1282.4		49	6	1504.9	1461.6	
31	9	1035.1	1005.3		40	9	1325.6	1287.4		49	9	1510.0	1466.5	
32	0	1044.5	1014.4		41	0	1330.7	1292.4		50	0	1515.1	1471.5	
32	3	1053.9	1023.5		41	3	1335.8	1297.4		50	3	1520.3	1476.5	
32	6	1063.2	1032.6		41	6	1340.9	1302.3		50	6	1525.4	1481.5	
32	9	1072.5	1041.6		41	9	1346.1	1307.3		50	9	1530.5	1486.4	
33	0	1081.8	1050.6		42	0	1351.2	1312.3		51	0	1535.6	1491.4	
33	3	1091.1	1059.7		42	3	1356.3	1317.3		51	3	1540.8	1496.4	
33	6	1101.0	1069.3		42	6	1361.4	1322.2		51	6	1545.9	1501.4	
33	9	1111.2	1079.2		42	9	1366.6	1327.2		51	9	1551.0	1506.3	
34	0	1121.5	1089.2		43	0	1371.7	1332.2		52	0	1556.1	1511.3	
34	3	1131.7	1099.1		43	3	1376.8	1337.2		52	3	1561.2	1516.3	
34	6	1141.9	1109.0		43	6	1381.9	1342.1		52	6	1566.4	1521.3	
34	9	1152.1	1118.9		43	9	1387.1	1347.1		52	9	1571.5	1526.2	
35	0	1162.3	1128.8		44	0	1392.2	1352.1		53	0	1576.6	1531.2	
35	3	1172.4	1138.7		44	3	1397.3	1357.1		53	3	1581.7	1536.2	
35	6	1183.2	1149.1		44	6	1402.4	1362.0		53	6	1586.9	1541.2	
35	9	1194.0	1159.7		44	9	1407.6	1367.0		53	9	1592.0	1546.1	

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SHIP- ALMERIA LYKES
TANK NO- 6-PORT FRS 58-64
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
54	0	1597.1	1551.1											
54	3	1602.2	1556.1											
54	6	1607.4	1561.1											
54	9	1612.5	1566.0											
55	0	1617.6	1571.0											
55	3	1622.7	1576.0											
55	6	1627.8	1581.0											
55	9	1633.0	1585.9											
56	0	1638.1	1590.9											
56	3	1643.2	1595.9											
56	6	1648.3	1600.9											
56	9	1653.5	1605.8											
57	0	1658.6	1610.8											
57	3	1663.7	1615.8											
57	6	1668.8	1620.8											
57	9	1674.0	1625.8											
58	0	1679.1	1630.7											
58	3	1684.2	1635.7											
58	6	1689.3	1640.7											
58	9	1694.4	1645.7											

Q 7024 100 % SOUNDING 58FT 9-1/8 IN 1694.7 TONS SW 1645.86 TONS FW

TOTAL SOUNDING TUBE LENGTH 58FT 9-1/2 IN

SHIP- ALMERIA LYKES
TANK NO- 7-STBD FRS 64-67
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	0.8	0.8		9	0	129.8	126.0		18	0	293.1	284.6	
0	3	3.6	3.5		9	3	134.2	130.4		18	3	297.8	289.2	
0	6	6.4	6.2		9	6	138.7	134.7		18	6	302.5	293.8	
0	9	9.2	9.0		9	9	143.1	139.0		18	9	307.2	298.4	
1	0	12.1	11.8		10	0	147.5	143.3		19	0	311.9	303.0	
1	3	15.1	14.6		10	3	151.9	147.6		19	3	316.7	307.6	
1	6	18.0	17.5		10	6	156.3	151.8		19	6	321.4	312.1	
1	9	21.1	20.5		10	9	160.8	156.1		19	9	326.1	316.7	
2	0	24.2	23.5		11	0	165.2	160.4		20	0	330.8	321.3	
2	3	27.3	26.5		11	3	169.6	164.7		20	3	335.6	325.9	
2	6	30.5	29.6		11	6	174.1	169.1		20	6	340.3	330.5	
2	9	33.7	32.7		11	9	178.5	173.4		20	9	345.0	335.1	
3	0	37.0	35.9		12	0	183.0	177.7		21	0	349.8	339.7	
3	3	40.3	39.2		12	3	187.5	182.1		21	3	354.5	344.3	
3	6	43.7	42.4		12	6	192.0	186.4		21	6	359.2	348.9	
3	9	47.1	45.7		12	9	196.4	190.8		21	9	364.0	353.5	
4	0	50.6	49.1		13	0	201.0	195.2		22	0	368.7	358.1	
4	3	54.1	52.5		13	3	205.5	199.6		22	3	373.4	362.7	
4	6	57.6	56.0		13	6	210.0	203.9		22	6	378.2	367.3	
4	9	61.2	59.5		13	9	214.5	208.3		22	9	382.9	371.9	
5	0	64.9	63.0		14	0	219.1	212.8		23	0	387.7	376.5	
5	3	68.6	66.6		14	3	223.6	217.2		23	3	392.4	381.1	
5	6	72.3	70.3		14	6	228.2	221.6		23	6	397.2	385.7	
5	9	76.1	73.9		14	9	232.8	226.1		23	9	401.9	390.4	
6	0	80.0	77.7		15	0	237.3	230.5		24	0	406.7	395.0	
6	3	83.9	81.5		15	3	241.9	235.0		24	3	411.4	399.6	
6	6	87.8	85.3		15	6	246.5	239.4		24	6	416.2	404.2	
6	9	91.8	89.1		15	9	251.1	243.9		24	9	421.0	408.8	
7	0	95.8	93.1		16	0	255.8	248.4		25	0	425.7	413.5	
7	3	99.9	97.0		16	3	260.4	252.9		25	3	430.5	418.1	
7	6	104.0	101.0		16	6	265.0	257.4		25	6	435.3	422.7	
7	9	108.2	105.1		16	9	269.7	261.9		25	9	440.0	427.3	
8	0	112.4	109.2		17	0	274.3	266.4		26	0	444.8	432.0	
8	3	116.7	113.3		17	3	279.0	271.0		26	3	449.6	436.6	
8	6	121.0	117.5		17	6	283.7	275.5		26	6	454.3	441.3	
8	9	125.4	121.8		17	9	288.4	280.1		26	9	459.1	445.9	

Q 7024

CONTINUED ON NEXT PAGE

SHIP- ALMERIA LYKES
TANK NO- 7-STBD FRS 64-67
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	463.9	450.5		36	0	637.7	619.3		45	0	754.8	733.1	
27	3	468.7	455.2		36	3	642.9	624.4		45	3	757.3	735.5	
27	6	473.4	459.8		36	6	648.1	629.4		45	6	759.7	737.8	
27	9	478.2	464.5		36	9	653.3	634.5		45	9	762.2	740.2	
28	0	483.0	469.1		37	0	658.6	639.7		46	0	764.6	742.6	
28	3	487.8	473.8		37	3	663.9	644.8		46	3	767.0	745.0	
28	6	492.6	478.4		37	6	669.3	650.0		46	6	769.5	747.3	
28	9	497.4	483.1		37	9	674.6	655.2		46	9	771.9	749.7	
29	0	501.9	487.5		38	0	680.0	660.4		47	0	774.4	752.1	
29	3	506.5	491.9		38	3	685.4	665.7		47	3	776.8	754.5	
29	6	511.0	496.3		38	6	690.9	671.0		47	6	779.3	756.8	
29	9	515.6	500.8		38	9	693.7	673.7		47	9	781.7	759.2	
30	0	520.2	505.3		39	0	696.1	676.1		48	0	784.2	761.6	
30	3	524.9	509.8		39	3	698.6	678.4		48	3	786.6	764.0	
30	6	529.6	514.3		39	6	701.0	680.8		48	6	789.1	766.3	
30	9	534.3	518.9		39	9	703.4	683.2		48	9	791.5	768.7	
31	0	539.1	523.5		40	0	705.9	685.6		49	0	794.0	771.1	
31	3	543.8	528.2		40	3	708.3	687.9		49	3	796.4	773.5	
31	6	548.6	532.8		40	6	710.8	690.3		49	6	798.8	775.8	
31	9	553.5	537.5		40	9	713.2	692.7		49	9	801.3	778.2	
32	0	558.3	542.2		41	0	715.7	695.1		50	0	803.7	780.6	
32	3	563.1	546.9		41	3	718.1	697.4		50	3	806.2	783.0	
32	6	567.8	551.5		41	6	720.6	699.8		50	6	808.6	785.3	
32	9	572.7	556.2		41	9	723.0	702.2		50	9	811.1	787.7	
33	0	577.5	560.9		42	0	725.5	704.6		51	0	813.5	790.1	
33	3	582.4	565.6		42	3	727.9	706.9		51	3	816.0	792.5	
33	6	587.2	570.3		42	6	730.4	709.3		51	6	818.4	794.8	
33	9	592.2	575.1		42	9	732.8	711.7		51	9	820.9	797.2	
34	0	597.1	579.9		43	0	735.2	714.1		52	0	823.3	799.6	
34	3	602.1	584.7		43	3	737.7	716.4		52	3	825.8	802.0	
34	6	607.1	589.6		43	6	740.1	718.8		52	6	828.2	804.4	
34	9	612.1	594.5		43	9	742.6	721.2		52	9	830.6	806.7	
35	0	617.2	599.4		44	0	745.0	723.6		53	0	833.1	809.1	
35	3	622.3	604.3		44	3	747.5	726.0		53	3	835.5	811.5	
35	6	627.4	609.3		44	6	749.9	728.3		53	6	838.0	813.9	
35	9	632.5	614.3		44	9	752.4	730.7		53	9	840.4	816.2	

Q 7024

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SHIP- ALMERIA LYKES
TANK NO- 7-STBD FRS 64-67
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
54	0	842.9	818.6											
54	3	845.3	821.0											
54	6	847.8	823.4											
54	9	850.2	825.7											
55	0	852.7	828.1											
55	3	855.1	830.5											
55	6	857.6	832.9											
55	9	860.0	835.2											
56	0	862.4	837.6											
56	3	864.9	840.0											
56	6	867.3	842.4											
56	9	869.8	844.7											
57	0	872.2	847.1											
57	3	874.7	849.5											
57	6	877.1	851.9											
57	9	879.6	854.2											
58	0	882.0	856.6											
58	3	884.5	859.0											
58	6	886.9	861.4											
58	9	889.4	863.7											
59	0	891.8	866.1											
59	3	894.2	868.5											
59	6	896.7	870.9											
59	9	899.1	873.2											
60	0	901.6	875.6											
60	3	904.0	878.0											

Q 7024 100 % SOUNDING 60FT 3-1/8 IN 904.2 TONS SW 878.20 TONS FW

TOTAL SOUNDING TUBE LENGTH 60FT 3-1/2 IN

SHIP- ALMERIA LYKES
TANK NO- 7-PORT FRS 64-67
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	2.0	1.9		9	0	134.5	130.6		18	0	300.9	292.3	
0	3	4.8	4.7		9	3	139.0	135.0		18	3	305.7	296.9	
0	6	7.7	7.4		9	6	143.5	139.4		18	6	310.6	301.6	
0	9	10.6	10.3		9	9	148.0	143.7		18	9	315.4	306.3	
1	0	13.6	13.2		10	0	152.5	148.1		19	0	320.2	311.0	
1	3	16.6	16.1		10	3	156.9	152.4		19	3	325.0	315.6	
1	6	19.6	19.1		10	6	161.4	156.8		19	6	329.8	320.3	
1	9	22.8	22.1		10	9	165.9	161.2		19	9	334.6	325.0	
2	0	25.9	25.2		11	0	170.5	165.5		20	0	339.4	329.6	
2	3	29.1	28.3		11	3	175.0	169.9		20	3	344.2	334.3	
2	6	32.4	31.5		11	6	179.5	174.4		20	6	349.0	339.0	
2	9	35.7	34.7		11	9	184.1	178.8		20	9	353.8	343.7	
3	0	39.1	38.0		12	0	188.6	183.2		21	0	358.7	348.3	
3	3	42.5	41.3		12	3	193.2	187.6		21	3	363.5	353.0	
3	6	46.0	44.6		12	6	197.8	192.1		21	6	368.3	357.7	
3	9	49.5	48.0		12	9	202.3	196.5		21	9	373.1	362.4	
4	0	53.0	51.5		13	0	206.9	201.0		22	0	378.0	367.1	
4	3	56.6	55.0		13	3	211.5	205.5		22	3	382.8	371.8	
4	6	60.3	58.5		13	6	216.2	209.9		22	6	387.6	376.5	
4	9	64.0	62.1		13	9	220.8	214.4		22	9	392.4	381.1	
5	0	67.7	65.8		14	0	225.4	218.9		23	0	397.3	385.8	
5	3	71.5	69.5		14	3	230.1	223.4		23	3	402.1	390.5	
5	6	75.4	73.2		14	6	234.7	228.0		23	6	406.9	395.2	
5	9	79.3	77.0		14	9	239.4	232.5		23	9	411.8	399.9	
6	0	83.2	80.8		15	0	244.1	237.0		24	0	416.6	404.6	
6	3	87.2	84.7		15	3	248.8	241.6		24	3	421.5	409.3	
6	6	91.3	88.7		15	6	253.4	246.1		24	6	426.3	414.0	
6	9	95.4	92.6		15	9	258.2	250.7		24	9	431.2	418.8	
7	0	99.5	96.7		16	0	262.9	255.3		25	0	436.3	423.8	
7	3	103.7	100.7		16	3	267.6	259.9		25	3	441.5	428.8	
7	6	108.0	104.9		16	6	272.3	264.5		25	6	446.6	433.8	
7	9	112.3	109.0		16	9	277.1	269.1		25	9	451.8	438.8	
8	0	116.6	113.2		17	0	281.8	273.7		26	0	456.9	443.8	
8	3	121.0	117.5		17	3	286.6	278.3		26	3	462.1	448.8	
8	6	125.4	121.8		17	6	291.4	283.0		26	6	467.2	453.8	
8	9	129.9	126.2		17	9	296.1	287.6		26	9	472.4	458.8	

Q 7024

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SHIP- ALMERIA LYKES
TANK NO- 7-PORT FRS 64-67
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	477.5	463.8		36	0	681.2	661.6		45	0	776.3	753.9	
27	3	482.7	468.8		36	3	687.8	668.0		45	3	778.7	756.3	
27	6	487.9	473.8		36	6	693.0	673.0		45	6	781.2	758.7	
27	9	493.0	478.8		36	9	695.4	675.4		45	9	783.6	761.0	
28	0	498.2	483.8		37	0	697.9	677.8		46	0	786.1	763.4	
28	3	503.0	488.6		37	3	700.3	680.2		46	3	788.5	765.8	
28	6	507.9	493.3		37	6	702.8	682.5		46	6	791.0	768.2	
28	9	512.9	498.1		37	9	705.2	684.9		46	9	793.4	770.6	
29	0	517.9	502.9		38	0	707.7	687.3		47	0	795.9	772.9	
29	3	522.9	507.8		38	3	710.1	689.7		47	3	798.3	775.3	
29	6	527.9	512.7		38	6	712.6	692.1		47	6	800.8	777.7	
29	9	533.0	517.6		38	9	715.0	694.4		47	9	803.2	780.1	
30	0	538.1	522.6		39	0	717.5	696.8		48	0	805.7	782.5	
30	3	543.2	527.6		39	3	719.9	699.2		48	3	808.1	784.8	
30	6	548.4	532.6		39	6	722.4	701.6		48	6	810.6	787.2	
30	9	553.6	537.7		39	9	724.8	704.0		48	9	813.0	789.6	
31	0	558.9	542.8		40	0	727.3	706.3		49	0	815.5	792.0	
31	3	564.2	547.9		40	3	729.7	708.7		49	3	817.9	794.4	
31	6	569.5	553.1		40	6	732.2	711.1		49	6	820.4	796.7	
31	9	575.3	558.8		40	9	734.6	713.5		49	9	822.8	799.1	
32	0	581.2	564.5		41	0	737.1	715.9		50	0	825.3	801.5	
32	3	587.2	570.3		41	3	739.5	718.2		50	3	827.7	803.9	
32	6	593.1	576.1		41	6	742.0	720.6		50	6	830.2	806.2	
32	9	599.2	581.9		41	9	744.4	723.0		50	9	832.6	808.6	
33	0	605.2	587.8		42	0	746.9	725.4		51	0	835.1	811.0	
33	3	611.3	593.7		42	3	749.3	727.7		51	3	837.5	813.4	
33	6	617.5	599.7		42	6	751.8	730.1		51	6	839.9	815.8	
33	9	623.7	605.7		42	9	754.2	732.5		51	9	842.4	818.1	
34	0	629.9	611.8		43	0	756.7	734.9		52	0	844.8	820.5	
34	3	636.2	617.8		43	3	759.1	737.3		52	3	847.3	822.9	
34	6	642.5	624.0		43	6	761.6	739.6		52	6	849.7	825.3	
34	9	648.8	630.1		43	9	764.0	742.0		52	9	852.2	827.7	
35	0	655.2	636.4		44	0	766.5	744.4		53	0	854.6	830.0	
35	3	661.7	642.6		44	3	768.9	746.8		53	3	857.1	832.4	
35	6	668.1	648.9		44	6	771.4	749.2		53	6	859.5	834.8	
35	9	674.6	655.2		44	9	773.8	751.5		53	9	862.0	837.2	

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SHIP- ALMERIA LYKES
TANK NO- 7-PORT FRS 64-67
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
54	0	864.4	839.5											
54	3	866.9	841.9											
54	6	869.3	844.3											
54	9	871.8	846.7											
55	0	874.2	849.1											
55	3	876.7	851.4											
55	6	879.1	853.8											
55	9	881.6	856.2											
56	0	884.0	858.6											
56	3	886.5	861.0											
56	6	888.9	863.3											
56	9	891.4	865.7											
57	0	893.8	868.1											
57	3	896.3	870.5											
57	6	898.7	872.9											
57	9	901.2	875.2											
58	0	903.6	877.6											

Q7024 100 % SOUNDING 58FT 0-3/4 IN 904.2 TONS SW 878.20 TONS FW

TOTAL SOUNDING TUBE LENGTH 58FT 1-1/8 IN

50

SHIP- ALMERIA LYKES
TANK NO- 8-STBD FRS 82-88
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	0.2	0.2		9	0	145.2	141.0		18	0	433.4	420.9	
0	3	0.6	0.6		9	3	152.5	148.1		18	3	442.1	429.4	
0	6	1.3	1.2		9	6	160.1	155.5		18	6	450.9	438.0	
0	9	2.2	2.1		9	9	167.8	163.0		18	9	459.8	446.6	
1	0	3.3	3.2		10	0	175.6	170.6		19	0	468.7	455.2	
1	3	4.6	4.5		10	3	183.0	177.7		19	3	477.6	463.9	
1	6	6.2	6.0		10	6	190.4	184.9		19	6	486.6	472.6	
1	9	8.0	7.7		10	9	197.9	192.2		19	9	495.7	481.4	
2	0	10.0	9.7		11	0	205.4	199.5		20	0	504.9	490.4	
2	3	12.2	11.9		11	3	213.0	206.8		20	3	514.2	499.4	
2	6	14.7	14.3		11	6	220.6	214.2		20	6	523.4	508.3	
2	9	17.4	16.9		11	9	228.2	221.6		20	9	532.7	517.3	
3	0	20.4	19.8		12	0	235.9	229.1		21	0	541.9	526.3	
3	3	23.5	22.9		12	3	243.6	236.6		21	3	551.2	535.3	
3	6	26.9	26.1		12	6	251.4	244.2		21	6	560.4	544.3	
3	9	30.5	29.7		12	9	259.2	251.7		21	9	569.7	553.3	
4	0	34.4	33.4		13	0	267.1	259.4		22	0	578.9	562.3	
4	3	38.5	37.4		13	3	275.0	267.1		22	3	588.2	571.2	
4	6	42.8	41.5		13	6	282.9	274.8		22	6	597.4	580.2	
4	9	47.3	45.9		13	9	290.9	282.5		22	9	606.7	589.2	
5	0	52.1	50.6		14	0	298.9	290.3		23	0	615.9	598.2	
5	3	56.6	55.0		14	3	307.0	298.2		23	3	625.2	607.2	
5	6	61.3	59.5		14	6	315.1	306.1		23	6	634.5	616.2	
5	9	66.1	64.2		14	9	323.3	314.0		23	9	643.7	625.2	
6	0	71.1	69.0		15	0	331.5	322.0		24	0	653.0	634.2	
6	3	76.3	74.1		15	3	339.8	330.0		24	3	662.2	643.1	
6	6	81.6	79.3		15	6	348.0	338.0		24	6	671.5	652.1	
6	9	87.2	84.6		15	9	356.4	346.1		24	9	680.7	661.1	
7	0	92.9	90.2		16	0	364.8	354.3		25	0	690.0	670.1	
7	3	98.8	95.9		16	3	373.2	362.4		25	3	699.2	679.1	
7	6	104.9	101.8		16	6	381.7	370.7		25	6	708.5	688.1	
7	9	111.1	107.9		16	9	390.2	378.9		25	9	717.7	697.1	
8	0	117.6	114.2		17	0	398.7	387.2		26	0	727.0	706.1	
8	3	124.2	120.6		17	3	407.3	395.6		26	3	736.2	715.0	
8	6	131.0	127.2		17	6	416.0	404.0		26	6	745.5	724.0	
8	9	138.0	134.0		17	9	424.6	412.4		26	9	754.7	733.0	

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SHIP- ALMERIA LYKES
TANK NO- 8-STBD FRS 82-88
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	764.0	742.0		36	0	1155.2	1122.0		45	0	1373.3	1333.8	
27	3	773.3	751.0		36	3	1166.2	1132.6		45	3	1378.5	1338.8	
27	6	782.5	760.0		36	6	1177.2	1143.3		45	6	1383.7	1343.8	
27	9	792.4	769.5		36	9	1188.2	1154.0		45	9	1388.8	1348.8	
28	0	803.4	780.2		37	0	1199.4	1164.9		46	0	1394.0	1353.9	
28	3	814.4	790.9		37	3	1210.8	1175.9		46	3	1399.2	1358.9	
28	6	825.3	801.6		37	6	1218.2	1183.1		46	6	1404.4	1363.9	
28	9	836.3	812.3		37	9	1223.3	1188.1		46	9	1409.5	1368.9	
29	0	847.3	822.9		38	0	1228.5	1193.1		47	0	1414.7	1374.0	
29	3	858.3	833.6		38	3	1233.7	1198.2		47	3	1419.9	1379.0	
29	6	869.3	844.3		38	6	1238.9	1203.2		47	6	1425.0	1384.0	
29	9	880.3	855.0		38	9	1244.0	1208.2		47	9	1430.2	1389.0	
30	0	891.3	865.7		39	0	1249.2	1213.2		48	0	1435.4	1394.0	
30	3	902.3	876.3		39	3	1254.4	1218.2		48	3	1440.6	1399.1	
30	6	913.3	887.0		39	6	1259.5	1223.3		48	6	1445.7	1404.1	
30	9	924.3	897.7		39	9	1264.7	1228.3		48	9	1450.9	1409.1	
31	0	935.3	908.4		40	0	1269.9	1233.3		49	0	1456.1	1414.1	
31	3	946.3	919.1		40	3	1275.1	1238.3		49	3	1461.2	1419.2	
31	6	957.3	929.7		40	6	1280.2	1243.4		49	6	1466.4	1424.2	
31	9	968.3	940.4		40	9	1285.4	1248.4		49	9	1471.6	1429.2	
32	0	979.3	951.1		41	0	1290.6	1253.4		50	0	1476.8	1434.2	
32	3	990.3	961.8		41	3	1295.7	1258.4		50	3	1481.9	1439.3	
32	6	1001.3	972.5		41	6	1300.9	1263.5		50	6	1487.1	1444.3	
32	9	1012.3	983.1		41	9	1306.1	1268.5		50	9	1492.3	1449.3	
33	0	1023.3	993.8		42	0	1311.3	1273.5		51	0	1497.4	1454.3	
33	3	1034.3	1004.5		42	3	1316.4	1278.5		51	3	1502.6	1459.3	
33	6	1045.3	1015.2		42	6	1321.6	1283.5		51	6	1507.8	1464.4	
33	9	1056.3	1025.9		42	9	1326.8	1288.6		51	9	1513.0	1469.4	
34	0	1067.3	1036.5		43	0	1331.9	1293.6		52	0	1518.1	1474.4	
34	3	1078.3	1047.2		43	3	1337.1	1298.6		52	3	1523.3	1479.4	
34	6	1089.3	1057.9		43	6	1342.3	1303.6		52	6	1528.5	1484.5	
34	9	1100.3	1068.6		43	9	1347.5	1308.7		52	9	1533.6	1489.5	
35	0	1111.3	1079.3		44	0	1352.6	1313.7		53	0	1538.8	1494.5	
35	3	1122.2	1089.9		44	3	1357.8	1318.7		53	3	1544.0	1499.5	
35	6	1133.2	1100.6		44	6	1363.0	1323.7		53	6	1549.2	1504.6	
35	9	1144.2	1111.3		44	9	1368.1	1328.8		53	9	1554.3	1509.6	

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SHIP- ALMERIA LYKES
TANK NO- 8-STBD FRS 82-88
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
54	0	1559.5	1514.6											
54	3	1564.7	1519.6											
54	6	1569.8	1524.6											
54	9	1575.0	1529.7											
55	0	1580.2	1534.7											
55	3	1585.4	1539.7											
55	6	1590.5	1544.7											
55	9	1595.7	1549.8											
56	0	1600.9	1554.8											
56	3	1606.1	1559.8											
56	6	1611.2	1564.8											
56	9	1616.4	1569.8											
57	0	1621.6	1574.9											
57	3	1626.7	1579.9											
57	6	1631.9	1584.9											
57	9	1637.1	1589.9											
58	0	1642.3	1595.0											
58	3	1647.4	1600.0											

NOTE: LIQUID LEVEL AT 100% FULL IS 5-3/8 IN ABOVE TOP OF SNDG TUBE

Q7024 100 % SOUNDING 58FT 9-3/8 IN 1654.5 TONS SW 1606.87 TONS FW

TOTAL SOUNDING TUBE LENGTH 58FT 4 IN

53

SHIP- ALMERIA LYKES
TANK NO- 8-C.L.(P) FRS 84-88
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	0.5	0.5		8	0	83.1	80.7		16	0	180.8	175.6	
0	3	1.0	1.0		8	3	86.1	83.7		16	3	183.9	178.6	
0	6	1.8	1.8		8	6	89.2	86.6		16	6	186.9	181.5	
0	9	2.8	2.7		8	9	92.2	89.6		16	9	190.0	184.5	
1	0	4.0	3.9		9	0	95.3	92.6		17	0	193.0	187.5	
1	3	5.5	5.3		9	3	98.4	95.5		17	3	196.1	190.4	
1	6	7.2	7.0		9	6	101.4	98.5		17	6	199.1	193.4	
1	9	9.0	8.8		9	9	104.5	101.5		17	9	202.2	196.4	
2	0	11.5	11.2		10	0	107.5	104.4		18	0	205.2	199.3	
2	3	14.3	13.9		10	3	110.6	107.4		18	3	208.3	202.3	
2	6	17.0	16.5		10	6	113.6	110.4		18	6	211.3	205.3	
2	9	19.8	19.2		10	9	116.7	113.3		18	9	214.4	208.2	
3	0	22.5	21.9		11	0	119.7	116.3		19	0	217.4	211.2	
3	3	25.3	24.6		11	3	122.8	119.2		19	3	220.5	214.1	
3	6	28.1	27.3		11	6	125.8	122.2		19	6	223.5	217.1	
3	9	31.2	30.3		11	9	128.9	125.2		19	9	226.5	220.0	
4	0	34.2	33.2		12	0	131.9	128.1		20	0	229.6	223.0	
4	3	37.3	36.2		12	3	135.0	131.1		20	3	232.6	225.9	
4	6	40.3	39.2		12	6	138.1	134.1		20	6	235.6	228.8	
4	9	43.4	42.1		12	9	141.1	137.0		20	9	238.7	231.8	
5	0	46.4	45.1		13	0	144.2	140.0						
5	3	49.5	48.1		13	3	147.2	143.0						
5	6	52.6	51.0		13	6	150.3	145.9						
5	9	55.6	54.0		13	9	153.3	148.9						
6	0	58.7	57.0		14	0	156.4	151.9						
6	3	61.7	59.9		14	3	159.4	154.8						
6	6	64.8	62.9		14	6	162.5	157.8						
6	9	67.8	65.9		14	9	165.5	160.8						
7	0	70.9	68.8		15	0	168.6	163.7						
7	3	73.9	71.8		15	3	171.6	166.7						
7	6	77.0	74.8		15	6	174.7	169.7						
7	9	80.0	77.7		15	9	177.7	172.6						

NOTE: SNDG TABLE FOR PORT SNDG TUBE TERMINATES AT THE SHAFT ALLEY FLAT.
FOR SOUNDINGS ABOVE THAT LEVEL CONSULT THE STBD SNDG TUBE TABLE

Q7024 100 % SOUNDING. 20FT 11-1/8 IN 240.9 TONS SW 233.96 TONS FW

TOTAL SOUNDING TUBE LENGTH 35FT 10 IN

54

SHIP- ALMERIA LYKES
TANK NO- 8-C.L.(S) FRS 84-88
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	0.3	0.3		9	0	111.7	108.5		18	0	215.7	209.5	
0	3	0.7	0.7		9	3	115.2	111.9		18	3	218.0	211.7	
0	6	1.4	1.3		9	6	118.7	115.2		18	6	220.2	213.9	
0	9	2.3	2.2		9	9	122.1	118.6		18	9	222.4	216.0	
1	0	3.4	3.3		10	0	125.5	121.9		19	0	224.6	218.1	
1	3	4.7	4.6		10	3	128.8	125.1		19	3	226.6	220.1	
1	6	6.3	6.1		10	6	132.1	128.3		19	6	228.7	222.1	
1	9	8.0	7.8		10	9	135.4	131.5		19	9	230.7	224.0	
2	0	10.1	9.8		11	0	138.7	134.7		20	0	232.6	225.9	
2	3	12.8	12.5		11	3	141.9	137.8		20	3	234.6	227.8	
2	6	15.6	15.2		11	6	145.1	140.9		20	6	236.5	229.6	
2	9	18.4	17.8		11	9	148.2	144.0		20	9	238.3	231.5	
3	0	21.1	20.5		12	0	151.3	147.0		21	0	240.2	233.2	
3	3	23.9	23.2		12	3	154.4	150.0		21	3	484.9	470.9	
3	6	26.6	25.9		12	6	157.5	152.9		21	6	490.0	475.9	
3	9	30.5	29.6		12	9	160.5	155.9		21	9	498.8	484.4	
4	0	34.7	33.7		13	0	163.5	158.7		22	0	507.6	493.0	
4	3	38.8	37.7		13	3	166.4	161.6		22	3	516.4	501.5	
4	6	43.0	41.8		13	6	169.3	164.4		22	6	525.2	510.0	
4	9	47.1	45.7		13	9	172.2	167.2		22	9	534.0	518.6	
5	0	51.2	49.7		14	0	175.0	170.0		23	0	542.7	527.1	
5	3	55.2	53.6		14	3	177.8	172.7		23	3	551.5	535.7	
5	6	59.2	57.5		14	6	180.6	175.4		23	6	560.3	544.2	
5	9	63.2	61.4		14	9	183.3	178.0		23	9	568.9	552.6	
6	0	67.1	65.2		15	0	186.0	180.7		24	0	577.2	560.6	
6	3	71.0	69.0		15	3	188.7	183.3		24	3	585.5	568.6	
6	6	74.9	72.8		15	6	191.3	185.8		24	6	593.8	576.7	
6	9	78.7	76.5		15	9	193.9	188.3		24	9	602.1	584.7	
7	0	82.5	80.2		16	0	196.5	190.8		25	0	610.4	592.8	
7	3	86.3	83.8		16	3	199.0	193.3		25	3	618.7	600.8	
7	6	90.0	87.5		16	6	201.5	195.7		25	6	626.9	608.9	
7	9	93.7	91.0		16	9	204.0	198.1		25	9	635.2	616.9	
8	0	97.4	94.6		17	0	206.4	200.4		26	0	643.5	625.0	
8	3	101.0	98.1		17	3	208.8	202.8		26	3	651.8	633.0	
8	6	104.6	101.6		17	6	211.1	205.1		26	6	660.1	641.1	
8	9	108.2	105.1		17	9	213.5	207.3		26	9	668.4	649.1	

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SHIP- ALMERIA LYKES
TANK NO- 8-C.L.(S) FRS 84-88
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	676.7	657.2											
27	3	684.9	665.2											
27	6	693.0	673.1											
27	9	700.0	679.9											
28	0	707.0	686.6											
28	3	714.0	693.4											
28	6	720.9	700.2											
28	9	727.9	707.0											
29	0	734.9	713.7											
29	3	741.9	720.5											
29	6	748.9	727.3											
29	9	755.8	734.1											
30	0	762.8	740.8											
30	3	769.8	747.6											
30	6	776.8	754.4											
30	9	783.7	761.2											
31	0	790.7	767.9											
31	3	797.7	774.7											
31	6	804.7	781.5											
31	9	811.7	788.3											
32	0	818.6	795.1											
32	3	825.6	801.8											
32	6	832.6	808.6											
32	9	839.6	815.4											
33	0	846.5	822.2											
33	3	853.5	828.9											
33	6	860.5	835.7											
33	9	867.5	842.5											
34	0	874.4	849.3											
34	3	877.2	852.0											
34	6	880.8	855.5											

NOTE: SNDG TABLE FOR STBD SNDG TUBE SHOWS ENTIRE TANK AT SOUNDINGS
ABOVE 21 FT 1-1/8 IN

Q7024 100 % SOUNDING 34FT 6-7/8 IN 882.1 TONS SW 856.68 TONS FW

TOTAL SOUNDING TUBE LENGTH 35FT 11-5/8 IN

56

GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO. 529-01-08 GD NO. 30210-03×2
SH 46-53 OF 113 FRAME ① 2 3 4

SHIP- ALMERIA LYKES
TANK NO- 8-PORT FRS 82-88
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	4.2	4.1		9	0	159.0	154.4		18	0	406.0	394.4	
0	3	6.7	6.5		9	3	164.8	160.0		18	3	413.6	401.7	
0	6	9.2	9.0		9	6	170.5	165.6		18	6	421.2	409.1	
0	9	11.7	11.4		9	9	176.2	171.2		18	9	428.8	416.5	
1	0	14.2	13.8		10	0	182.0	176.8		19	0	436.5	423.9	
1	3	16.7	16.2		10	3	188.5	183.1		19	3	444.1	431.3	
1	6	19.2	18.6		10	6	195.0	189.4		19	6	451.9	438.8	
1	9	21.7	21.0		10	9	201.6	195.8		19	9	459.6	446.4	
2	0	24.1	23.4		11	0	208.2	202.2		20	0	467.4	453.9	
2	3	26.6	25.9		11	3	214.8	208.6		20	3	475.2	461.5	
2	6	29.1	28.3		11	6	221.4	215.1		20	6	483.1	469.1	
2	9	31.6	30.7		11	9	228.1	221.6		20	9	490.9	476.8	
3	0	34.1	33.1		12	0	234.8	228.1		21	0	498.9	484.5	
3	3	36.6	35.5		12	3	241.6	234.6		21	3	506.9	492.3	
3	6	39.1	37.9		12	6	248.4	241.2		21	6	515.0	500.2	
3	9	41.5	40.3		12	9	255.2	247.8		21	9	523.2	508.1	
4	0	44.0	42.8		13	0	262.0	254.5		22	0	531.5	516.2	
4	3	46.5	45.2		13	3	268.9	261.2		22	3	541.9	526.3	
4	6	49.0	47.6		13	6	275.8	267.9		22	6	552.2	536.3	
4	9	51.5	50.0		13	9	282.8	274.6		22	9	562.6	546.4	
5	0	55.0	53.5		14	0	289.8	281.4		23	0	573.0	556.5	
5	3	62.5	60.7		14	3	296.8	288.2		23	3	583.3	566.5	
5	6	70.0	68.0		14	6	303.8	295.1		23	6	593.7	576.6	
5	9	77.5	75.3		14	9	310.9	302.0		23	9	604.1	586.7	
6	0	85.0	82.6		15	0	318.0	308.9		24	0	614.4	596.7	
6	3	92.5	89.8		15	3	325.2	315.8		24	3	624.8	606.8	
6	6	100.0	97.1		15	6	332.4	322.8		24	6	635.2	616.9	
6	9	107.3	104.2		15	9	339.6	329.8		24	9	645.5	626.9	
7	0	113.1	109.8		16	0	346.8	336.9		25	0	655.9	637.0	
7	3	118.8	115.4		16	3	354.1	343.9		25	3	666.3	647.1	
7	6	124.6	121.0		16	6	361.4	351.0		25	6	676.6	657.1	
7	9	130.3	126.6		16	9	368.8	358.2		25	9	687.0	667.2	
8	0	136.0	132.1		17	0	376.2	365.3		26	0	697.4	677.3	
8	3	141.8	137.7		17	3	383.6	372.5		26	3	707.7	687.4	
8	6	147.5	143.3		17	6	391.0	379.8		26	6	718.1	697.4	
8	9	153.3	148.9		17	9	398.5	387.1		26	9	728.5	707.5	

Q 7024

CONTINUED ON NEXT PAGE

SHIP- ALMERIA LYKES
TANK NO- 8-PORT FRS 82-88
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	738.8	717.6		36	0	1134.7	1102.1		45	0	1367.9	1328.6	
27	3	749.2	727.6		36	3	1146.0	1113.0		45	3	1373.1	1333.6	
27	6	759.6	737.7		36	6	1157.2	1123.9		45	6	1378.3	1338.6	
27	9	769.9	747.8		36	9	1168.4	1134.8		45	9	1383.5	1343.6	
28	0	780.3	757.8		37	0	1179.6	1145.7		46	0	1388.6	1348.6	
28	3	790.7	767.9		37	3	1190.9	1156.6		46	3	1393.8	1353.7	
28	6	801.0	778.0		37	6	1202.1	1167.5		46	6	1399.0	1358.7	
28	9	811.4	788.0		37	9	1213.4	1178.5		46	9	1404.1	1363.7	
29	0	821.8	798.1		38	0	1223.1	1187.9		47	0	1409.3	1368.7	
29	3	832.1	808.2		38	3	1228.3	1192.9		47	3	1414.5	1373.8	
29	6	842.8	818.5		38	6	1233.5	1198.0		47	6	1419.7	1378.8	
29	9	854.0	829.4		38	9	1238.7	1203.0		47	9	1424.8	1383.8	
30	0	865.2	840.3		39	0	1243.8	1208.0		48	0	1430.0	1388.8	
30	3	876.5	851.2		39	3	1249.0	1213.0		48	3	1435.2	1393.8	
30	6	887.7	862.1		39	6	1254.2	1218.1		48	6	1440.3	1398.9	
30	9	898.9	873.0		39	9	1259.3	1223.1		48	9	1445.5	1403.9	
31	0	910.2	884.0		40	0	1264.5	1228.1		49	0	1450.7	1408.9	
31	3	921.4	894.9		40	3	1269.7	1233.1		49	3	1455.9	1413.9	
31	6	932.6	905.8		40	6	1274.9	1238.1		49	6	1461.0	1419.0	
31	9	943.8	916.7		40	9	1280.0	1243.2		49	9	1466.2	1424.0	
32	0	955.1	927.6		41	0	1285.2	1248.2		50	0	1471.4	1429.0	
32	3	966.3	938.5		41	3	1290.4	1253.2		50	3	1476.5	1434.0	
32	6	977.5	949.4		41	6	1295.5	1258.2		50	6	1481.7	1439.0	
32	9	988.8	960.3		41	9	1300.7	1263.3		50	9	1486.9	1444.1	
33	0	1000.0	971.2		42	0	1305.9	1268.3		51	0	1492.1	1449.1	
33	3	1011.2	982.1		42	3	1311.1	1273.3		51	3	1497.2	1454.1	
33	6	1022.4	993.0		42	6	1316.2	1278.3		51	6	1502.4	1459.1	
33	9	1033.7	1003.9		42	9	1321.4	1283.3		51	9	1507.6	1464.2	
34	0	1044.9	1014.8		43	0	1326.6	1288.4		52	0	1512.7	1469.2	
34	3	1056.1	1025.7		43	3	1331.7	1293.4		52	3	1517.9	1474.2	
34	6	1067.4	1036.6		43	6	1336.9	1298.4		52	6	1523.1	1479.2	
34	9	1078.6	1047.5		43	9	1342.1	1303.4		52	9	1528.3	1484.3	
35	0	1089.8	1058.4		44	0	1347.3	1308.5		53	0	1533.4	1489.3	
35	3	1101.0	1069.3		44	3	1352.4	1313.5		53	3	1538.6	1494.3	
35	6	1112.3	1080.2		44	6	1357.6	1318.5		53	6	1543.8	1499.3	
35	9	1123.5	1091.2		44	9	1362.8	1323.5		53	9	1548.9	1504.3	

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SHIP- ALMERIA LYKES
TANK NO- 8-PORT FRS 82-88
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
54	0	1554.1	1509.4											
54	3	1559.3	1514.4											
54	6	1564.5	1519.4											
54	9	1569.6	1524.4											
55	0	1574.8	1529.5											
55	3	1580.0	1534.5											
55	6	1585.1	1539.5											
55	9	1590.3	1544.5											
56	0	1595.5	1549.5											
56	3	1600.7	1554.6											
56	6	1605.8	1559.6											
56	9	1611.0	1564.6											
57	0	1616.2	1569.6											
57	3	1621.4	1574.7											
57	6	1626.5	1579.7											
57	9	1631.7	1584.7											
58	0	1636.9	1589.7											
58	3	1642.0	1594.8											
58	6	1647.2	1599.8											
58	9	1652.4	1604.8											

NOTE: LIQUID LEVEL AT 100% FULL IS 5-3/8 IN ABOVE TOP OF SNDG TUBE

Q 7024

100 % SOUNDING 59FT 5-1/8 IN 1661.5 TONS SW 1613.65 TONS FW

TOTAL SOUNDING TUBE LENGTH 58FT 11-3/4 IN

SHIP- ALMERIA LYKES
TANK NO- 9-STBD FRS 88-94
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	0.4	0.4		9	0	78.5	76.2		18	0	333.0	323.4	
0	3	0.6	0.6		9	3	83.8	81.4		18	3	341.3	331.5	
0	6	0.9	0.8		9	6	89.3	86.7		18	6	349.7	339.6	
0	9	1.2	1.1		9	9	94.9	92.2		18	9	358.1	347.8	
1	0	1.5	1.5		10	0	100.8	97.9		19	0	366.6	356.0	
1	3	1.9	1.9		10	3	106.8	103.7		19	3	375.1	364.3	
1	6	2.4	2.3		10	6	113.0	109.8		19	6	383.7	372.7	
1	9	2.9	2.8		10	9	119.4	115.9		19	9	392.4	381.1	
2	0	3.5	3.4		11	0	125.8	122.2		20	0	401.3	389.7	
2	3	4.1	4.0		11	3	132.3	128.5		20	3	410.2	398.4	
2	6	4.7	4.6		11	6	138.9	134.9		20	6	419.2	407.1	
2	9	5.4	5.3		11	9	145.5	141.4		20	9	428.2	415.9	
3	0	6.2	6.0		12	0	152.3	147.9		21	0	437.2	424.6	
3	3	7.1	6.9		12	3	159.0	154.4		21	3	446.3	433.4	
3	6	8.2	7.9		12	6	165.9	161.1		21	6	455.3	442.2	
3	9	9.4	9.2		12	9	172.8	167.8		21	9	464.3	450.9	
4	0	10.9	10.6		13	0	179.7	174.6		22	0	473.3	459.7	
4	3	12.5	12.2		13	3	186.8	181.4		22	3	482.3	468.4	
4	6	14.4	13.9		13	6	193.9	188.3		22	6	491.3	477.2	
4	9	16.4	15.9		13	9	201.1	195.3		22	9	500.3	485.9	
5	0	18.6	18.0		14	0	208.3	202.3		23	0	509.3	494.7	
5	3	20.9	20.3		14	3	215.6	209.4		23	3	518.3	503.4	
5	6	23.5	22.8		14	6	223.0	216.5		23	6	527.3	512.2	
5	9	26.2	25.5		14	9	230.4	223.8		23	9	536.3	520.9	
6	0	29.1	28.3		15	0	237.9	231.1		24	0	545.4	529.6	
6	3	32.2	31.3		15	3	245.5	238.4		24	3	554.4	538.4	
6	6	35.5	34.5		15	6	253.1	245.8		24	6	563.4	547.2	
6	9	39.0	37.9		15	9	260.8	253.3		24	9	572.4	555.9	
7	0	42.7	41.4		16	0	268.6	260.9		25	0	581.4	564.7	
7	3	46.5	45.2		16	3	276.5	268.5		25	3	590.4	573.4	
7	6	50.5	49.1		16	6	284.4	276.2		25	6	599.5	582.2	
7	9	54.7	53.1		16	9	292.3	283.9		25	9	608.5	591.0	
8	0	59.1	57.4		17	0	300.3	291.7		26	0	617.6	599.8	
8	3	63.7	61.8		17	3	308.4	299.5		26	3	628.2	610.1	
8	6	68.4	66.4		17	6	316.6	307.4		26	6	638.9	620.5	
8	9	73.4	71.2		17	9	324.8	315.4		26	9	649.5	630.8	

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SHIP- ALMERIA LYKES
TANK NO- 9-STBD FRS 88-94
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	660.2	641.2		36	0	1020.8	991.4		45	0	1211.2	1176.4	
27	3	671.0	651.6		36	3	1026.3	996.7		45	3	1216.4	1181.4	
27	6	681.7	662.1		36	6	1031.7	1002.0		45	6	1221.5	1186.4	
27	9	692.5	672.6		36	9	1037.1	1007.2		45	9	1226.7	1191.4	
28	0	703.3	683.1		37	0	1042.5	1012.4		46	0	1231.8	1196.3	
28	3	714.2	693.6		37	3	1047.9	1017.7		46	3	1236.9	1201.3	
28	6	725.1	704.2		37	6	1053.2	1022.9		46	6	1242.0	1206.3	
28	9	736.0	714.8		37	9	1058.6	1028.1		46	9	1247.2	1211.2	
29	0	747.0	725.5		38	0	1064.0	1033.3		47	0	1252.3	1216.2	
29	3	758.0	736.1		38	3	1069.3	1038.5		47	3	1257.4	1221.1	
29	6	769.0	746.8		38	6	1074.7	1043.7		47	6	1262.4	1226.1	
29	9	780.0	757.6		38	9	1080.0	1048.9		47	9	1267.5	1231.0	
30	0	791.8	769.0		39	0	1085.4	1054.1		48	0	1272.6	1235.9	
30	3	803.6	780.4		39	3	1090.7	1059.3		48	3	1277.7	1240.9	
30	6	815.3	791.8		39	6	1096.0	1064.5		48	6	1282.7	1245.8	
30	9	827.0	803.2		39	9	1101.3	1069.6		48	9	1287.8	1250.7	
31	0	838.7	814.6		40	0	1106.6	1074.8		49	0	1292.8	1255.6	
31	3	850.4	825.9		40	3	1111.9	1079.9		49	3	1297.8	1260.5	
31	6	862.1	837.2		40	6	1117.2	1085.1		49	6	1302.9	1265.3	
31	9	873.7	848.5		40	9	1122.5	1090.2		49	9	1307.9	1270.2	
32	0	885.3	859.8		41	0	1127.8	1095.3		50	0	1312.9	1275.1	
32	3	896.9	871.0		41	3	1133.1	1100.4		50	3	1317.9	1280.0	
32	6	908.4	882.2		41	6	1138.3	1105.5		50	6	1322.9	1284.8	
32	9	919.9	893.4		41	9	1143.6	1110.7		50	9	1327.9	1289.7	
33	0	931.4	904.6		42	0	1148.8	1115.8		51	0	1332.9	1294.5	
33	3	942.9	915.7		42	3	1154.1	1120.8		51	3	1337.9	1299.3	
33	6	954.3	926.8		42	6	1159.3	1125.9		51	6	1342.8	1304.2	
33	9	965.7	937.9		42	9	1164.5	1131.0		51	9	1347.8	1309.0	
34	0	974.3	946.3		43	0	1169.8	1136.1		52	0	1352.7	1313.8	
34	3	982.7	954.4		43	3	1175.0	1141.1		52	3	1357.7	1318.6	
34	6	988.2	959.7		43	6	1180.2	1146.2		52	6	1362.6	1323.4	
34	9	993.6	965.0		43	9	1185.4	1151.2		52	9	1367.6	1328.2	
35	0	999.1	970.3		44	0	1190.6	1156.3		53	0	1372.5	1333.0	
35	3	1004.5	975.6		44	3	1195.7	1161.3		53	3	1377.4	1337.7	
35	6	1010.0	980.9		44	6	1200.9	1166.3		53	6	1382.3	1342.5	
35	9	1015.4	986.2		44	9	1206.1	1171.3		53	9	1387.2	1347.3	

Q 7024

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SHIP- ALMERIA LYKES
TANK NO- 9-STBD FRS 88-94
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
54	0	1392.1	1352.0		62	0	1503.6	1460.3						
54	3	1397.0	1356.8		62	3	1507.7	1464.3						
54	6	1401.9	1361.5		62	6	1511.9	1468.4						
54	9	1406.8	1366.2		62	9	1516.2	1472.6						
55	0	1411.6	1371.0		63	0	1520.6	1476.8						
55	3	1416.5	1375.7		63	3	1525.0	1481.1						
55	6	1420.2	1379.3		63	6	1529.5	1485.5						
55	9	1422.5	1381.6		63	9	1534.1	1489.9						
56	0	1424.9	1383.9		64	0	1538.7	1494.4						
56	3	1427.4	1386.3		64	3	1543.5	1499.0						
56	6	1429.9	1388.8		64	6	1548.2	1503.7						
56	9	1432.6	1391.3		64	9	1553.1	1508.4						
57	0	1435.2	1393.9		65	0	1558.0	1513.1						
57	3	1438.0	1396.6		65	3	1563.0	1518.0						
57	6	1440.8	1399.3		65	6	1568.1	1522.9						
57	9	1443.7	1402.1		65	9	1573.2	1527.9						
58	0	1446.7	1405.0		66	0	1578.4	1532.9						
58	3	1449.7	1407.9											
58	6	1452.8	1411.0											
58	9	1456.0	1414.0											
59	0	1459.2	1417.2											
59	3	1462.5	1420.4											
59	6	1465.9	1423.7											
59	9	1469.4	1427.0											
60	0	1472.9	1430.5											
60	3	1476.5	1434.0											
60	6	1480.1	1437.5											
60	9	1483.9	1441.1											
61	0	1487.7	1444.8											
61	3	1491.5	1448.6											
61	6	1495.5	1452.4											
61	9	1499.5	1456.3											

NOTE: LIQUID LEVEL AT 100% FULL IS 4-1/4 IN ABOVE TOP OF SNDG TUBE

Q 7024

100 % SOUNDING 66FT 5 IN 1584.0 TONS SW 1538.36 TONS FW

TOTAL SOUNDING TUBE LENGTH 66FT 0-3/4 IN

SHIP- ALMERIA LYKES
TANK NO- 9-C.L.(P) FRS 88-94
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	0.5	0.5		8	0	86.5	84.0		16	0	241.4	234.5	
0	3	0.9	0.9		8	3	89.8	87.2		16	3	245.3	238.2	
0	6	1.3	1.3		8	6	93.6	90.9		16	6	249.1	241.9	
0	9	1.8	1.8		8	9	97.9	95.1		16	9	252.8	245.5	
1	0	2.4	2.4		9	0	102.7	99.8		17	0	256.4	249.0	
1	3	3.1	3.0		9	3	108.1	105.0		17	3	260.0	252.5	
1	6	3.9	3.8		9	6	113.9	110.6		17	6	263.5	255.9	
1	9	4.8	4.6		9	9	119.7	116.3		17	9	267.0	259.3	
2	0	5.7	5.5		10	0	125.5	121.8		18	0	270.4	262.6	
2	3	6.7	6.5		10	3	131.1	127.4		18	3	273.7	265.9	
2	6	8.0	7.8		10	6	136.7	132.8		18	6	277.0	269.0	
2	9	9.6	9.3		10	9	142.3	138.2		18	9	280.2	272.2	
3	0	11.4	11.0		11	0	147.7	143.5						
3	3	13.4	13.0		11	3	153.1	148.7						
3	6	15.7	15.2		11	6	158.5	153.9						
3	9	18.2	17.7		11	9	163.7	159.0						
4	0	21.0	20.4		12	0	168.9	164.0						
4	3	24.0	23.3		12	3	174.0	169.0						
4	6	27.2	26.4		12	6	179.1	173.9						
4	9	30.7	29.8		12	9	184.1	178.8						
5	0	34.5	33.5		13	0	189.0	183.5						
5	3	38.5	37.3		13	3	193.8	188.2						
5	6	42.7	41.5		13	6	198.6	192.9						
5	9	47.2	45.8		13	9	203.3	197.4						
6	0	51.9	50.4		14	0	207.9	201.9						
6	3	56.8	55.2		14	3	212.5	206.4						
6	6	62.0	60.2		14	6	217.0	210.8						
6	9	66.8	64.9		14	9	221.3	214.9						
7	0	71.4	69.4		15	0	225.5	219.0						
7	3	75.7	73.5		15	3	229.6	222.9						
7	6	79.6	77.3		15	6	233.6	226.9						
7	9	83.2	80.8		15	9	237.5	230.7						

NOTE: SNDG TABLE FOR PORT SNDG TUBE TERMINATES AT THE SHAFT ALLEY FLAT.
FOR SOUNDINGS ABOVE THAT LEVEL CONSULT THE STBD SNDG TUBE TABLE

Q 7024

100 % SOUNDING 18FT 9 IN 280.3 TONS SW 272.24 TONS FW

TOTAL SOUNDING TUBE LENGTH 32FT 10-3/4 IN

SHIP- ALMERIA LYKES
TANK NO- 9-C.L.(S) FRS 88-94
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	0.5	0.5		9	0	101.7	98.7		18	0	267.3	259.6	
0	3	0.9	0.9		9	3	106.9	103.8		18	3	271.7	263.9	
0	6	1.3	1.3		9	6	112.3	109.0		18	6	276.1	268.1	
0	9	1.8	1.8		9	9	116.8	113.5		18	9	516.8	501.9	
1	0	2.4	2.3		10	0	121.4	117.9		19	0	571.5	555.0	
1	3	3.1	3.0		10	3	126.0	122.4		19	3	581.8	565.1	
1	6	3.9	3.8		10	6	130.6	126.8		19	6	594.0	576.9	
1	9	4.7	4.6		10	9	135.2	131.3		19	9	606.4	588.9	
2	0	5.6	5.5		11	0	139.8	135.7		20	0	618.7	600.9	
2	3	6.7	6.5		11	3	144.4	140.2		20	3	631.1	612.9	
2	6	8.0	7.7		11	6	148.9	144.7		20	6	643.5	624.9	
2	9	9.5	9.2		11	9	153.5	149.1		20	9	655.8	636.9	
3	0	11.2	10.9		12	0	158.1	153.6		21	0	668.2	648.9	
3	3	13.2	12.9		12	3	162.7	158.0		21	3	680.5	660.9	
3	6	15.5	15.0		12	6	167.3	162.5		21	6	692.9	672.9	
3	9	18.0	17.5		12	9	171.9	166.9		21	9	705.3	685.0	
4	0	20.7	20.1		13	0	176.5	171.4		22	0	717.6	697.0	
4	3	23.7	23.0		13	3	181.0	175.8		22	3	730.0	709.0	
4	6	26.9	26.1		13	6	185.6	180.3		22	6	742.4	721.0	
4	9	30.3	29.5		13	9	190.2	184.7		22	9	754.7	733.0	
5	0	34.0	33.0		14	0	194.8	189.2		23	0	767.1	745.0	
5	3	37.9	36.9		14	3	199.4	193.6		23	3	779.0	756.5	
5	6	42.1	40.9		14	6	204.0	198.1		23	6	790.1	767.4	
5	9	46.5	45.2		14	9	208.6	202.6		23	9	801.3	778.2	
6	0	51.2	49.7		15	0	213.1	207.0		24	0	812.5	789.1	
6	3	56.1	54.5		15	3	217.7	211.5		24	3	823.7	800.0	
6	6	61.2	59.4		15	6	222.3	215.9		24	6	834.9	810.8	
6	9	66.1	64.2		15	9	226.9	220.4		24	9	846.1	821.7	
7	0	70.7	68.6		16	0	231.5	224.8		25	0	857.3	832.6	
7	3	75.0	72.8		16	3	236.1	229.3		25	3	868.4	843.4	
7	6	78.9	76.6		16	6	240.7	233.7		25	6	879.6	854.3	
7	9	82.6	80.2		16	9	245.2	238.2		25	9	890.6	864.9	
8	0	85.9	83.4		17	0	249.7	242.5		26	0	901.5	875.5	
8	3	89.1	86.5		17	3	254.1	246.8		26	3	912.4	886.1	
8	6	92.8	90.1		17	6	258.5	251.0		26	6	923.3	896.7	
8	9	96.9	94.2		17	9	262.9	255.3		26	9	934.2	907.3	

Q 7024

CONTINUED ON NEXT PAGE

GENERAL DYNAMICS, QUINCY JAN., 1974 8X

MA NO. S-29-01-08 GD NO. 30210-03×2 SH 54-61 OF 113 FRAME ① 2 3 4

SHIP- ALMERIA LYKES
TANK NO- 10 STBD FRS 94-99
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
54	0	1031.9	1002.1											
54	3	1036.2	1006.3											
54	6	1040.5	1010.5											
54	9	1044.8	1014.7											
55	0	1049.1	1018.9											
55	3	1053.4	1023.1											
55	6	1057.7	1027.2											
55	9	1062.0	1031.4											
56	0	1066.3	1035.6											
56	3	1070.6	1039.8											
56	6	1074.9	1044.0											
56	9	1079.2	1048.1											
57	0	1083.5	1052.3											
57	3	1087.8	1056.5											
57	6	1092.1	1060.7											
57	9	1096.5	1064.9											
58	0	1100.8	1069.1											
58	3	1105.1	1073.2											
58	6	1109.4	1077.4											
58	9	1113.7	1081.6											
59	0	1118.0	1085.8											
59	3	1122.3	1090.0											
59	6	1126.6	1094.2											
59	9	1130.9	1098.3											
60	0	1135.2	1102.5											
60	3	1139.5	1106.7											
60	6	1143.8	1110.9											
60	9	1148.1	1115.1											

NOTE: TOP OF SOUNDING TUBE IS 4-7/8 IN BELOW HIGH POINT OF TANK

Q 7024 100 % SOUNDING 61FT 2-3/8 IN 1152.3 TONS SW 1119.09 TONS FW

TOTAL SOUNDING TUBE LENGTH 60FT 9-1/2 IN

SHIP- ALMERIA LYKES
TANK NO- 10-PORT FRS 82-88
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	2.3	2.2		9	0	35.5	34.5		18	0	226.4	219.9	
0	3	2.6	2.5		9	3	38.2	37.1		18	3	233.5	226.8	
0	6	2.9	2.9		9	6	41.4	40.2		18	6	240.6	233.6	
0	9	3.3	3.2		9	9	44.5	43.2		18	9	247.6	240.5	
1	0	3.6	3.5		10	0	47.6	46.2		19	0	254.7	247.4	
1	3	3.9	3.8		10	3	50.7	49.2		19	3	261.8	254.3	
1	6	4.2	4.1		10	6	53.8	52.3		19	6	269.0	261.2	
1	9	4.5	4.4		10	9	56.9	55.3		19	9	276.1	268.1	
2	0	4.9	4.7		11	0	60.0	58.3		20	0	283.2	275.1	
2	3	5.2	5.0		11	3	63.2	61.3		20	3	290.3	282.0	
2	6	5.5	5.3		11	6	66.3	64.4		20	6	297.5	288.9	
2	9	5.8	5.6		11	9	69.4	67.4		20	9	304.7	295.9	
3	0	6.1	5.9		12	0	72.5	70.4		21	0	311.8	302.8	
3	3	6.4	6.3		12	3	75.6	73.4		21	3	319.0	309.8	
3	6	6.8	6.6		12	6	78.7	76.5		21	6	326.2	316.8	
3	9	7.1	6.9		12	9	81.8	79.5		21	9	334.7	325.1	
4	0	7.4	7.2		13	0	87.1	84.6		22	0	344.0	334.1	
4	3	7.7	7.5		13	3	93.9	91.2		22	3	353.5	343.3	
4	6	8.0	7.8		13	6	100.8	97.9		22	6	363.1	352.6	
4	9	8.4	8.1		13	9	107.7	104.6		22	9	372.7	362.0	
5	0	8.7	8.4		14	0	114.6	111.3		23	0	382.4	371.4	
5	3	9.0	8.7		14	3	121.6	118.1		23	3	392.0	380.7	
5	6	9.3	9.0		14	6	128.5	124.8		23	6	401.7	390.1	
5	9	9.6	9.3		14	9	135.4	131.5		23	9	411.3	399.5	
6	0	9.9	9.7		15	0	142.4	138.3		24	0	421.0	408.8	
6	3	11.9	11.5		15	3	149.3	145.0		24	3	430.6	418.2	
6	6	14.0	13.6		15	6	156.3	151.8		24	6	440.2	427.6	
6	9	16.2	15.7		15	9	163.3	158.6		24	9	449.9	436.9	
7	0	18.3	17.8		16	0	170.2	165.3		25	0	459.5	446.3	
7	3	20.5	19.9		16	3	177.2	172.1		25	3	469.2	455.7	
7	6	22.6	22.0		16	6	184.2	178.9		25	6	478.8	465.0	
7	9	24.8	24.1		16	9	191.2	185.7		25	9	488.5	474.4	
8	0	26.9	26.1		17	0	198.3	192.5		26	0	498.1	483.8	
8	3	29.1	28.2		17	3	205.3	199.4		26	3	505.0	490.4	
8	6	31.2	30.3		17	6	212.3	206.2		26	6	514.5	499.7	
8	9	33.4	32.4		17	9	219.4	213.1		26	9	524.0	508.9	

Q 7024

CONTINUED ON NEXT PAGE

SHIP- ALMERIA LYKES
TANK NO- 10 STBD FRS 94-99
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	1.8	1.7		9	0	55.9	54.3		18	0	240.1	233.2	
0	3	2.2	2.2		9	3	58.7	57.0		18	3	246.4	239.3	
0	6	2.6	2.6		9	6	61.5	59.8		18	6	252.8	245.5	
0	9	3.1	3.0		9	9	64.3	62.5		18	9	259.1	251.7	
1	0	3.5	3.4		10	0	67.1	65.2		19	0	265.5	257.9	
1	3	3.9	3.8		10	3	69.9	67.9		19	3	271.9	264.1	
1	6	4.3	4.2		10	6	72.7	70.6		19	6	278.3	270.3	
1	9	4.7	4.6		10	9	75.5	73.3		19	9	284.8	276.6	
2	0	5.1	5.0		11	0	78.3	76.0		20	0	291.3	282.9	
2	3	5.6	5.4		11	3	81.0	78.7		20	3	297.8	289.2	
2	6	6.0	5.8		11	6	85.1	82.6		20	6	304.3	295.6	
2	9	6.4	6.2		11	9	90.7	88.1		20	9	310.9	301.9	
3	0	6.8	6.6		12	0	96.4	93.6		21	0	317.5	308.3	
3	3	7.2	7.0		12	3	102.1	99.2		21	3	324.1	314.8	
3	6	7.6	7.4		12	6	107.8	104.7		21	6	330.7	321.2	
3	9	8.1	7.8		12	9	113.6	110.3		21	9	337.4	327.7	
4	0	8.5	8.2		13	0	119.3	115.9		22	0	346.3	336.4	
4	3	8.9	8.6		13	3	125.1	121.5		22	3	355.6	345.4	
4	6	9.3	9.1		13	6	131.0	127.2		22	6	364.9	354.3	
4	9	9.7	9.5		13	9	136.8	132.9		22	9	374.1	363.3	
5	0	11.2	10.9		14	0	142.7	138.6		23	0	383.4	372.3	
5	3	14.0	13.6		14	3	148.6	144.3		23	3	392.6	381.3	
5	6	16.8	16.3		14	6	154.5	150.1		23	6	401.9	390.3	
5	9	19.6	19.0		14	9	160.5	155.8		23	9	411.1	399.3	
6	0	22.4	21.7		15	0	166.4	161.6		24	0	420.4	408.3	
6	3	25.2	24.4		15	3	172.4	167.5		24	3	429.6	417.2	
6	6	28.0	27.2		15	6	178.5	173.3		24	6	438.9	426.2	
6	9	30.8	29.9		15	9	184.5	179.2		24	9	448.1	435.2	
7	0	33.6	32.6		16	0	190.6	185.1		25	0	457.4	444.2	
7	3	36.4	35.3		16	3	196.7	191.0		25	3	466.6	453.2	
7	6	39.2	38.0		16	6	202.8	197.0		25	6	475.9	462.2	
7	9	41.9	40.7		16	9	209.0	203.0		25	9	485.1	471.2	
8	0	44.7	43.5		17	0	215.2	209.0		26	0	494.4	480.1	
8	3	47.5	46.2		17	3	221.4	215.0		26	3	503.7	489.2	
8	6	50.3	48.9		17	6	227.6	221.0		26	6	513.0	498.2	
8	9	53.1	51.6		17	9	233.8	227.1		26	9	522.3	507.2	

Q 7024

CONTINUED ON NEXT PAGE

SHIP- ALMERIA LYKES
TANK NO- 10 STBD FRS 94-99
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	531.5	516.2		36	0	721.5	700.7		45	0	876.7	851.5	
27	3	540.8	525.3		36	3	725.8	704.9		45	3	881.0	855.7	
27	6	550.1	534.3		36	6	730.1	709.1		45	6	885.3	859.8	
27	9	559.4	543.3		36	9	734.5	713.3		45	9	889.7	864.0	
28	0	568.7	552.4		37	0	738.8	717.5		46	0	894.0	868.2	
28	3	578.0	561.4		37	3	743.1	721.7		46	3	898.3	872.4	
28	6	587.3	570.4		37	6	747.4	725.9		46	6	902.6	876.6	
28	9	594.5	577.4		37	9	751.7	730.1		46	9	906.9	880.8	
29	0	600.8	583.5		38	0	756.0	734.2		47	0	911.2	885.0	
29	3	605.1	587.7		38	3	760.3	738.4		47	3	915.5	889.2	
29	6	609.4	591.9		38	6	764.6	742.6		47	6	919.8	893.3	
29	9	613.7	596.1		38	9	768.9	746.8		47	9	924.1	897.5	
30	0	618.0	600.3		39	0	773.3	751.0		48	0	928.5	901.7	
30	3	622.4	604.4		39	3	777.6	755.2		48	3	932.8	905.9	
30	6	626.7	608.6		39	6	781.9	759.4		48	6	937.1	910.1	
30	9	631.0	612.8		39	9	786.2	763.5		48	9	941.4	914.3	
31	0	635.3	617.0		40	0	790.5	767.7		49	0	945.7	918.5	
31	3	639.6	621.2		40	3	794.8	771.9		49	3	950.0	922.7	
31	6	643.9	625.4		40	6	799.1	776.1		49	6	954.3	926.8	
31	9	648.2	629.6		40	9	803.4	780.3		49	9	958.6	931.0	
32	0	652.5	633.7		41	0	807.7	784.5		50	0	962.9	935.2	
32	3	656.9	637.9		41	3	812.1	788.7		50	3	967.3	939.4	
32	6	661.2	642.1		41	6	816.4	792.9		50	6	971.6	943.6	
32	9	665.5	646.3		41	9	820.7	797.0		50	9	975.9	947.8	
33	0	669.8	650.5		42	0	825.0	801.2		51	0	980.2	951.9	
33	3	674.1	654.7		42	3	829.3	805.4		51	3	984.5	956.1	
33	6	678.4	658.9		42	6	833.6	809.6		51	6	988.8	960.3	
33	9	682.7	663.1		42	9	837.9	813.8		51	9	993.1	964.5	
34	0	687.0	667.2		43	0	842.2	818.0		52	0	997.4	968.7	
34	3	691.3	671.4		43	3	846.5	822.2		52	3	1001.7	972.9	
34	6	695.7	675.6		43	6	850.9	826.4		52	6	1006.0	977.0	
34	9	700.0	679.8		43	9	855.2	830.5		52	9	1010.3	981.2	
35	0	704.3	684.0		44	0	859.5	834.7		53	0	1014.6	985.4	
35	3	708.6	688.2		44	3	863.8	838.9		53	3	1018.9	989.6	
35	6	712.9	692.4		44	6	868.1	843.1		53	6	1023.2	993.8	
35	9	717.2	696.6		44	9	872.4	847.3		53	9	1027.5	998.0	

Q 7024

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SHIP- ALMERIA LYKES
TANK NO- 9-PORT FRS 88-94
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	681.9	662.3		36	0	1033.3	1003.6		45	0	1221.5	1186.3	
27	3	692.7	672.8		36	3	1038.6	1008.7		45	3	1226.6	1191.3	
27	6	703.6	683.3		36	6	1043.9	1013.9		45	6	1231.8	1196.3	
27	9	714.4	693.8		36	9	1049.2	1019.0		45	9	1236.9	1201.3	
28	0	725.2	704.3		37	0	1054.5	1024.1		46	0	1242.1	1206.3	
28	3	736.0	714.8		37	3	1059.8	1029.3		46	3	1247.2	1211.3	
28	6	746.8	725.3		37	6	1065.0	1034.4		46	6	1252.3	1216.3	
28	9	757.6	735.7		37	9	1070.3	1039.5		46	9	1257.5	1221.3	
29	0	768.3	746.2		38	0	1075.6	1044.6		47	0	1262.6	1226.2	
29	3	779.0	756.6		38	3	1080.8	1049.7		47	3	1267.7	1231.2	
29	6	789.9	767.1		38	6	1086.1	1054.8		47	6	1272.8	1236.2	
29	9	801.3	778.2		38	9	1091.4	1059.9		47	9	1277.9	1241.1	
30	0	812.7	789.3		39	0	1096.6	1065.0		48	0	1283.0	1246.1	
30	3	824.2	800.4		39	3	1101.9	1070.1		48	3	1288.2	1251.1	
30	6	835.6	811.6		39	6	1107.1	1075.2		48	6	1293.3	1256.0	
30	9	847.1	822.7		39	9	1112.3	1080.3		48	9	1298.4	1261.0	
31	0	858.7	833.9		40	0	1117.6	1085.4		49	0	1303.4	1265.9	
31	3	870.2	845.2		40	3	1122.8	1090.5		49	3	1308.5	1270.9	
31	6	881.8	856.4		40	6	1128.0	1095.6		49	6	1313.6	1275.8	
31	9	893.4	867.7		40	9	1133.3	1100.6		49	9	1318.7	1280.7	
32	0	905.0	878.9		41	0	1138.5	1105.7		50	0	1323.8	1285.7	
32	3	916.6	890.3		41	3	1143.7	1110.8		50	3	1328.9	1290.6	
32	6	928.3	901.6		41	6	1148.9	1115.8		50	6	1333.9	1295.5	
32	9	940.0	912.9		41	9	1154.1	1120.9		50	9	1339.0	1300.4	
33	0	951.7	924.3		42	0	1159.3	1125.9		51	0	1344.1	1305.4	
33	3	963.5	935.7		42	3	1164.5	1131.0		51	3	1349.1	1310.3	
33	6	974.7	946.7		42	6	1169.7	1136.0		51	6	1354.2	1315.2	
33	9	983.1	954.8		42	9	1174.9	1141.1		51	9	1359.2	1320.1	
34	0	990.8	962.3		43	0	1180.1	1146.1		52	0	1364.3	1325.0	
34	3	996.2	967.5		43	3	1185.3	1151.2		52	3	1369.3	1329.9	
34	6	1001.5	972.6		43	6	1190.5	1156.2		52	6	1374.4	1334.8	
34	9	1006.8	977.8		43	9	1195.6	1161.2		52	9	1379.4	1339.7	
35	0	1012.1	983.0		44	0	1200.8	1166.2		53	0	1384.4	1344.6	
35	3	1017.4	988.1		44	3	1206.0	1171.3		53	3	1389.4	1349.4	
35	6	1022.7	993.3		44	6	1211.2	1176.3		53	6	1394.5	1354.3	
35	9	1028.0	998.4		44	9	1216.3	1181.3		53	9	1399.5	1359.2	

Q 7024

CONTINUED ON NEXT PAGE

SHIP- ALMERIA LYKES
TANK NO- 9-PORT FRS 88-94
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
54	0	1404.5	1364.1		62	0	1539.4	1495.0						
54	3	1409.5	1368.9		62	3	1542.8	1498.4						
54	6	1414.5	1373.8		62	6	1546.3	1501.8						
54	9	1419.5	1378.7		62	9	1549.7	1505.0						
55	0	1424.5	1383.4		63	0	1553.0	1508.3						
55	3	1429.1	1387.9		63	3	1556.3	1511.5						
55	6	1433.7	1392.4		63	6	1559.6	1514.7						
55	9	1438.3	1396.9		63	9	1562.8	1517.8						
56	0	1442.9	1401.3		64	0	1566.0	1520.9						
56	3	1447.4	1405.7		64	3	1569.1	1524.0						
56	6	1451.9	1410.1		64	6	1572.2	1527.0						
56	9	1456.3	1414.4		64	9	1575.3	1529.9						
57	0	1460.7	1418.6		65	0	1578.3	1532.8						
57	3	1465.0	1422.8		65	3	1581.3	1535.7						
57	6	1469.3	1427.0		65	6	1584.2	1538.6						
57	9	1473.6	1431.1		65	9	1587.1	1541.4						
58	0	1477.8	1435.2											
58	3	1482.0	1439.3											
58	6	1486.1	1443.3											
58	9	1490.2	1447.3											
59	0	1494.2	1451.2											
59	3	1498.2	1455.1											
59	6	1502.2	1458.9											
59	9	1506.1	1462.7											
60	0	1509.9	1466.5											
60	3	1513.8	1470.2											
60	6	1517.6	1473.9											
60	9	1521.3	1477.5											
61	0	1525.0	1481.1											
61	3	1528.7	1484.6											
61	6	1532.3	1488.1											
61	9	1535.8	1491.6											

NOTE: LIQUID LEVEL AT 100% FULL IS 4-1/4 IN ABOVE TOP OF SNDG TUBE

Q 7024 100 % SOUNDING 66FT 1-1/2 IN 1590.9 TONS SW 1545.06 TONS FW

TOTAL SOUNDING TUBE LENGTH 65FT 9-1/4 IN

SHIP- ALMERIA LYKES
TANK NO- 9-C.L.(S) FRS 88-94
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	945.1	917.9											
27	3	956.0	928.5											
27	6	966.9	939.0											
27	9	977.8	949.6											
28	0	988.7	960.2											
28	3	999.6	970.8											
28	6	1010.5	981.4											
28	9	1021.4	992.0											
29	0	1032.3	1002.6											
29	3	1043.2	1013.2											
29	6	1054.1	1023.8											
29	9	1065.0	1034.3											
30	0	1075.9	1044.9											
30	3	1086.8	1055.5											
30	6	1097.7	1066.1											
30	9	1108.6	1076.7											
31	0	1119.5	1087.3											
31	3	1130.5	1097.9											
31	6	1141.4	1108.5											
31	9	1152.3	1119.1											

NOTE: SNDG TABLE FOR STBD SNDG TUBE SHOWS ENTIRE TANK AT SOUNDINGS
ABOVE 18 FT 8-7/8 IN

Q 7024 100 % SOUNDING 31FT 9-3/4 IN 1170.0 TONS SW 1136.35 TONS FW

TOTAL SOUNDING TUBE LENGTH 33FT 8 IN

SHIP- ALMERIA LYKES
TANK NO- 9-PORT FRS 88-94
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	0.6	0.6		9	0	80.4	78.1		18	0	345.0	335.1	
0	3	0.9	0.9		9	3	85.8	83.3		18	3	353.7	343.5	
0	6	1.2	1.2		9	6	91.3	88.6		18	6	362.3	351.9	
0	9	1.5	1.5		9	9	97.0	94.2		18	9	371.0	360.3	
1	0	1.9	1.9		10	0	102.8	99.9		19	0	379.7	368.8	
1	3	2.4	2.3		10	3	108.9	105.7		19	3	388.4	377.2	
1	6	2.9	2.8		10	6	115.1	111.8		19	6	397.0	385.6	
1	9	3.4	3.3		10	9	121.5	118.0		19	9	405.7	394.0	
2	0	3.9	3.8		11	0	128.0	124.3		20	0	414.4	402.5	
2	3	4.6	4.4		11	3	134.5	130.7		20	3	423.1	410.9	
2	6	5.2	5.1		11	6	141.1	137.0		20	6	431.9	419.5	
2	9	5.9	5.8		11	9	148.0	143.8		20	9	441.6	428.9	
3	0	6.7	6.5		12	0	155.2	150.8		21	0	451.1	438.1	
3	3	7.7	7.5		12	3	162.5	157.8		21	3	460.6	447.3	
3	6	8.9	8.6		12	6	169.7	164.8		21	6	469.9	456.4	
3	9	10.2	9.9		12	9	177.0	171.9		21	9	479.2	465.4	
4	0	11.8	11.4		13	0	184.3	179.0		22	0	488.4	474.3	
4	3	13.5	13.1		13	3	191.6	186.1		22	3	497.5	483.2	
4	6	15.4	14.9		13	6	199.0	193.2		22	6	506.5	491.9	
4	9	17.5	17.0		13	9	206.3	200.4		22	9	515.4	500.6	
5	0	19.7	19.2		14	0	213.7	207.6		23	0	524.3	509.2	
5	3	22.2	21.5		14	3	221.2	214.8		23	3	533.3	517.9	
5	6	24.8	24.1		14	6	228.6	222.1		23	6	542.3	526.7	
5	9	27.6	26.8		14	9	236.1	229.3		23	9	551.5	535.6	
6	0	30.6	29.7		15	0	243.6	236.6		24	0	560.7	544.5	
6	3	33.7	32.7		15	3	251.2	243.9		24	3	569.9	553.5	
6	6	37.1	36.0		15	6	258.7	251.3		24	6	579.3	562.6	
6	9	40.6	39.4		15	9	266.9	259.2		24	9	588.7	571.8	
7	0	44.3	43.0		16	0	275.6	267.7		25	0	598.2	581.0	
7	3	48.2	46.8		16	3	284.3	276.1		25	3	607.8	590.3	
7	6	52.2	50.7		16	6	293.0	284.5		25	6	617.5	599.7	
7	9	56.5	54.9		16	9	301.6	292.9		25	9	627.4	609.3	
8	0	60.9	59.2		17	0	310.3	301.4		26	0	638.3	620.0	
8	3	65.5	63.6		17	3	319.0	309.8		26	3	649.2	630.5	
8	6	70.3	68.3		17	6	327.7	318.2		26	6	660.1	641.1	
8	9	75.3	73.1		17	9	336.3	326.6		26	9	671.0	651.7	

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GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO. S-29-01-08 GD NO. 30210-03×2 SH 62-69 OF 113 FRAME ① 2 3 4

SHIP- ALMERIA LYKES
TANK NO- 10-PORT FRS 82-88
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	533.5	518.2		36	0	727.3	706.4		45	0	882.5	857.1	
27	3	543.1	527.4		36	3	731.6	710.5		45	3	886.8	861.2	
27	6	552.6	536.7		36	6	735.9	714.7		45	6	891.1	865.4	
27	9	562.1	545.9		36	9	740.2	718.9		45	9	895.4	869.6	
28	0	571.6	555.2		37	0	744.5	723.1		46	0	899.7	873.8	
28	3	581.1	564.4		37	3	748.9	727.3		46	3	904.0	878.0	
28	6	590.7	573.6		37	6	753.2	731.5		46	6	908.3	882.2	
28	9	599.1	581.8		37	9	757.5	735.7		46	9	912.6	886.4	
29	0	606.1	588.6		38	0	761.8	739.8		47	0	917.0	890.6	
29	3	610.9	593.3		38	3	766.1	744.0		47	3	921.3	894.7	
29	6	615.2	597.5		38	6	770.4	748.2		47	6	925.6	898.9	
29	9	619.5	601.7		38	9	774.7	752.4		47	9	929.9	903.1	
30	0	623.9	605.9		39	0	779.0	756.6		48	0	934.2	907.3	
30	3	628.2	610.1		39	3	783.3	760.8		48	3	938.5	911.5	
30	6	632.5	614.3		39	6	787.6	765.0		48	6	942.8	915.7	
30	9	636.8	618.5		39	9	792.0	769.2		48	9	947.1	919.9	
31	0	641.1	622.6		40	0	796.3	773.3		49	0	951.4	924.0	
31	3	645.4	626.8		40	3	800.6	777.5		49	3	955.7	928.2	
31	6	649.7	631.0		40	6	804.9	781.7		49	6	960.1	932.4	
31	9	654.0	635.2		40	9	809.2	785.9		49	9	964.4	936.6	
32	0	658.3	639.4		41	0	813.5	790.1		50	0	968.7	940.8	
32	3	662.6	643.6		41	3	817.8	794.3		50	3	973.0	945.0	
32	6	667.0	647.8		41	6	822.1	798.5		50	6	977.3	949.1	
32	9	671.3	651.9		41	9	826.4	802.6		50	9	981.6	953.3	
33	0	675.6	656.1		42	0	830.8	806.8		51	0	985.9	957.5	
33	3	679.9	660.3		42	3	835.1	811.0		51	3	990.2	961.7	
33	6	684.2	664.5		42	6	839.4	815.2		51	6	994.5	965.9	
33	9	688.5	668.7		42	9	843.7	819.4		51	9	998.8	970.1	
34	0	692.8	672.9		43	0	848.0	823.6		52	0	1003.1	974.2	
34	3	697.1	677.1		43	3	852.3	827.8		52	3	1007.4	978.4	
34	6	701.4	681.2		43	6	856.6	831.9		52	6	1011.7	982.6	
34	9	705.8	685.4		43	9	860.9	836.1		52	9	1016.0	986.8	
35	0	710.1	689.6		44	0	865.2	840.3		53	0	1020.3	991.0	
35	3	714.4	693.8		44	3	869.5	844.5		53	3	1024.6	995.1	
35	6	718.7	698.0		44	6	873.9	848.7		53	6	1029.0	999.3	
35	9	723.0	702.2		44	9	878.2	852.9		53	9	1033.3	1003.5	

Q 7024

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SHIP- ALMERIA LYKES
TANK NO- 10-PORT FRS 82-88
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
54	0	1037.6	1007.7											
54	3	1041.9	1011.9											
54	6	1046.2	1016.1											
54	9	1050.5	1020.2											
55	0	1054.8	1024.4											
55	3	1059.1	1028.6											
55	6	1063.4	1032.8											
55	9	1067.7	1037.0											
56	0	1072.0	1041.1											
56	3	1076.3	1045.3											
56	6	1080.6	1049.5											
56	9	1084.9	1053.7											
57	0	1089.2	1057.9											
57	3	1093.5	1062.0											
57	6	1097.8	1066.2											
57	9	1102.1	1070.4											
58	0	1106.4	1074.6											
58	3	1110.8	1078.8											
58	6	1115.1	1083.0											
58	9	1119.4	1087.1											
59	0	1123.7	1091.3											
59	3	1128.0	1095.5											
59	6	1132.3	1099.7											
59	9	1136.6	1103.9											
60	0	1140.9	1108.0											
60	3	1145.2	1112.2											
60	6	1149.5	1116.4											
60	9	1153.8	1120.6											

NOTE: LIQUID LEVEL AT 100% FULL IS 4-3/4 IN ABOVE TOP OF SNDG TUBE

Q 7024 100 % SOUNDING 61FT 3-3/4 IN 1160.1 TONS SW 1126.70 TONS FW

TOTAL SOUNDING TUBE LENGTH 60FT 11 IN

SHIP- ALMERIA LYKES
TANK NO- 11-STBD FRS 99-107
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	2.2	2.1		9	0	199.4	193.7		18	0	605.2	587.7	
0	3	4.0	3.8		9	3	209.3	203.2		18	3	610.8	593.3	
0	6	5.9	5.7		9	6	219.3	213.0		18	6	616.5	598.8	
0	9	8.1	7.8		9	9	229.5	222.9		18	9	622.2	604.3	
1	0	10.4	10.1		10	0	239.9	233.0		19	0	627.9	609.8	
1	3	12.8	12.5		10	3	251.2	244.0		19	3	633.6	615.3	
1	6	15.5	15.1		10	6	263.3	255.7		19	6	639.3	620.9	
1	9	18.4	17.8		10	9	275.6	267.6		19	9	645.0	626.4	
2	0	21.4	20.8		11	0	288.0	279.7		20	0	650.6	631.9	
2	3	24.6	23.9		11	3	300.7	292.1		20	3	656.3	637.4	
2	6	27.9	27.1		11	6	313.6	304.6		20	6	662.0	643.0	
2	9	31.5	30.6		11	9	326.7	317.3		20	9	667.7	648.5	
3	0	35.2	34.2		12	0	340.1	330.3		21	0	673.4	654.0	
3	3	39.1	38.0		12	3	353.6	343.4		21	3	679.1	659.5	
3	6	43.2	42.0		12	6	367.3	356.8		21	6	684.8	665.0	
3	9	47.5	46.1		12	9	381.3	370.3		21	9	690.4	670.6	
4	0	51.9	50.4		13	0	395.5	384.1		22	0	696.1	676.1	
4	3	56.5	54.9		13	3	409.9	398.1		22	3	701.8	681.6	
4	6	61.3	59.6		13	6	424.5	412.3		22	6	707.5	687.1	
4	9	66.3	64.4		13	9	439.3	426.7		22	9	713.2	692.7	
5	0	71.4	69.4		14	0	454.4	441.3		23	0	718.9	698.2	
5	3	76.8	74.5		14	3	469.6	456.1		23	3	724.6	703.7	
5	6	82.3	79.9		14	6	485.1	471.1		23	6	730.3	709.2	
5	9	87.9	85.4		14	9	501.0	486.6		23	9	735.9	714.7	
6	0	93.8	91.1		15	0	515.6	500.8		24	0	741.6	720.3	
6	3	99.8	97.0		15	3	528.9	513.7		24	3	747.3	725.8	
6	6	106.0	103.0		15	6	541.2	525.6		24	6	753.0	731.3	
6	9	112.4	109.2		15	9	552.1	536.2		24	9	758.7	736.8	
7	0	119.0	115.6		16	0	559.7	543.6		25	0	764.4	742.4	
7	3	135.1	131.2		16	3	565.4	549.1		25	3	770.1	747.9	
7	6	143.8	139.6		16	6	571.0	554.6		25	6	775.7	753.4	
7	9	152.6	148.2		16	9	576.7	560.1		25	9	781.4	758.9	
8	0	161.6	157.0		17	0	582.4	565.6		26	0	787.1	764.4	
8	3	170.8	165.9		17	3	588.1	571.2		26	3	792.8	770.0	
8	6	180.2	175.0		17	6	593.8	576.7		26	6	798.5	775.5	
8	9	189.7	184.2		17	9	599.5	582.2		26	9	804.2	781.0	

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SHIP- ALMERIA LYKES
TANK NO- 11-STBD FRS 99-107
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	809.9	786.5		35	0	991.8	963.3		43	0	1173.8	1140.0	
27	3	815.5	792.1		35	3	997.5	968.8		43	3	1179.4	1145.5	
27	6	821.2	797.6		35	6	1003.2	974.3		43	6	1185.1	1151.0	
27	9	826.9	803.1		35	9	1008.9	979.8		43	9	1190.8	1156.5	
28	0	832.6	808.6		36	0	1014.6	985.3		44	0	1196.5	1162.0	
28	3	838.3	814.1		36	3	1020.2	990.9		44	3	1202.2	1167.6	
28	6	844.0	819.7		36	6	1025.9	996.4		44	6	1207.9	1173.1	
28	9	849.7	825.2		36	9	1031.6	1001.9		44	9	1213.6	1178.6	
29	0	855.3	830.7		37	0	1037.3	1007.4		45	0	1219.2	1184.1	
29	3	861.0	836.2		37	3	1043.0	1013.0		45	3	1224.9	1189.7	
29	6	866.7	841.8		37	6	1048.7	1018.5		45	6	1230.6	1195.2	
29	9	872.4	847.3		37	9	1054.4	1024.0		45	9	1236.3	1200.7	
30	0	878.1	852.8		38	0	1060.0	1029.5		46	0	1242.0	1206.2	
30	3	883.8	858.3		38	3	1065.7	1035.0		46	3	1247.7	1211.7	
30	6	889.5	863.8		38	6	1071.4	1040.6		46	6	1253.4	1217.3	
30	9	895.1	869.4		38	9	1077.1	1046.1		46	9	1259.0	1222.8	
31	0	900.8	874.9		39	0	1082.8	1051.6		47	0	1264.7	1228.3	
31	3	906.5	880.4		39	3	1088.5	1057.1		47	3	1270.4	1233.8	
31	6	912.2	885.9		39	6	1094.2	1062.6		47	6	1276.1	1239.4	
31	9	917.9	891.5		39	9	1099.8	1068.2						
32	0	923.6	897.0		40	0	1105.5	1073.7						
32	3	929.3	902.5		40	3	1111.2	1079.2						
32	6	935.0	908.0		40	6	1116.9	1084.7						
32	9	940.6	913.6		40	9	1122.6	1090.3						
33	0	946.3	919.1		41	0	1128.3	1095.8						
33	3	952.0	924.6		41	3	1134.0	1101.3						
33	6	957.7	930.1		41	6	1139.6	1106.8						
33	9	963.4	935.6		41	9	1145.3	1112.3						
34	0	969.1	941.2		42	0	1151.0	1117.9						
34	3	974.8	946.7		42	3	1156.7	1123.4						
34	6	980.4	952.2		42	6	1162.4	1128.9						
34	9	986.1	957.7		42	9	1168.1	1134.4						

NOTE: LIQUID LEVEL AT 100% FULL IS 7-1/2 IN ABOVE TOP OF SNDG TUBE

Q 7024 100 % SOUNDING 48FT 2 IN 1283.3 TONS SW 1246.33 TONS FW

TOTAL SOUNDING TUBE LENGTH 47FT 6-1/2 IN

SHIP- ALMERIA LYKES
TANK NO- 11-PORT FRS 99-107
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	2.2	2.1		9	0	187.0	181.6		18	0	613.5	595.8	
0	3	3.6	3.5		9	3	196.6	190.9		18	3	619.2	601.3	
0	6	5.2	5.1		9	6	206.5	200.5		18	6	624.9	606.9	
0	9	7.2	7.0		9	9	216.7	210.4		18	9	630.5	612.4	
1	0	9.4	9.1		10	0	227.1	220.6		19	0	636.2	617.9	
1	3	11.9	11.6		10	3	237.9	231.0		19	3	641.9	623.4	
1	6	14.7	14.3		10	6	248.9	241.7		19	6	647.6	628.9	
1	9	17.8	17.3		10	9	261.6	254.1		19	9	653.3	634.5	
2	0	21.2	20.5		11	0	275.2	267.2		20	0	659.0	640.0	
2	3	24.8	24.1		11	3	289.1	280.8		20	3	664.6	645.5	
2	6	28.8	27.9		11	6	303.4	294.6		20	6	670.3	651.0	
2	9	33.0	32.0		11	9	318.1	308.9		20	9	676.0	656.5	
3	0	37.5	36.4		12	0	333.1	323.5		21	0	681.7	662.1	
3	3	42.3	41.1		12	3	347.7	337.7		21	3	687.4	667.6	
3	6	47.4	46.0		12	6	362.4	352.0		21	6	693.1	673.1	
3	9	52.2	50.7		12	9	377.1	366.3		21	9	698.7	678.6	
4	0	55.8	54.2		13	0	391.9	380.6		22	0	704.4	684.1	
4	3	59.6	57.9		13	3	406.6	394.9		22	3	710.1	689.7	
4	6	63.7	61.9		13	6	421.4	409.3		22	6	715.8	695.2	
4	9	68.0	66.1		13	9	436.2	423.6		22	9	721.5	700.7	
5	0	72.6	70.5		14	0	451.0	438.0		23	0	727.2	706.2	
5	3	77.4	75.2		14	3	465.9	452.5		23	3	732.8	711.7	
5	6	82.5	80.1		14	6	480.7	466.9		23	6	738.5	717.3	
5	9	87.8	85.2		14	9	495.6	481.4		23	9	744.2	722.8	
6	0	93.5	90.8		15	0	510.5	495.8		24	0	749.9	728.3	
6	3	99.7	96.9		15	3	525.5	510.3		24	3	755.6	733.8	
6	6	106.3	103.2		15	6	540.4	524.9		24	6	761.3	739.3	
6	9	113.1	109.8		15	9	553.0	537.1		24	9	766.9	744.9	
7	0	120.2	116.7		16	0	564.2	548.0		25	0	772.6	750.4	
7	3	127.5	123.9		16	3	573.7	557.2		25	3	778.3	755.9	
7	6	135.2	131.3		16	6	579.4	562.7		25	6	784.0	761.4	
7	9	143.1	139.0		16	9	585.1	568.2		25	9	789.7	766.9	
8	0	151.3	147.0		17	0	590.8	573.7		26	0	795.4	772.5	
8	3	159.8	155.2		17	3	596.4	579.3		26	3	801.0	778.0	
8	6	168.6	163.7		17	6	602.1	584.8		26	6	806.7	783.5	
8	9	177.6	172.5		17	9	607.8	590.3		26	9	812.4	789.0	

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SHIP- ALMERIA LYKES
TANK NO- 11-PORT FRS 99-107
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	818.1	794.5		35	0	999.9	971.2		43	0	1181.8	1147.8	
27	3	823.8	800.0		35	3	1005.6	976.7		43	3	1187.5	1153.3	
27	6	829.5	805.6		35	6	1011.3	982.2		43	6	1193.2	1158.8	
27	9	835.1	811.1		35	9	1017.0	987.7		43	9	1198.9	1164.3	
28	0	840.8	816.6		36	0	1022.7	993.2		44	0	1204.5	1169.9	
28	3	846.5	822.1		36	3	1028.4	998.8		44	3	1210.2	1175.4	
28	6	852.2	827.6		36	6	1034.0	1004.3		44	6	1215.9	1180.9	
28	9	857.9	833.2		36	9	1039.7	1009.8		44	9	1221.6	1186.4	
29	0	863.6	838.7		37	0	1045.4	1015.3		45	0	1227.3	1191.9	
29	3	869.2	844.2		37	3	1051.1	1020.8		45	3	1233.0	1197.5	
29	6	874.9	849.7		37	6	1056.8	1026.3		45	6	1238.6	1203.0	
29	9	880.6	855.2		37	9	1062.5	1031.9		45	9	1244.3	1208.5	
30	0	886.3	860.8		38	0	1068.1	1037.4		46	0	1250.0	1214.0	
30	3	892.0	866.3		38	3	1073.8	1042.9		46	3	1255.7	1219.5	
30	6	897.7	871.8		38	6	1079.5	1048.4		46	6	1261.4	1225.1	
30	9	903.3	877.3		38	9	1085.2	1053.9		46	9	1267.1	1230.6	
31	0	909.0	882.8		39	0	1090.9	1059.5		47	0	1272.7	1236.1	
31	3	914.7	888.4		39	3	1096.6	1065.0		47	3	1278.4	1241.6	
31	6	920.4	893.9		39	6	1102.2	1070.5		47	6	1284.1	1247.1	
31	9	926.1	899.4		39	9	1107.9	1076.0		47	9	1289.8	1252.7	
32	0	931.8	904.9		40	0	1113.6	1081.5						
32	3	937.4	910.4		40	3	1119.3	1087.1						
32	6	943.1	916.0		40	6	1125.0	1092.6						
32	9	948.8	921.5		40	9	1130.7	1098.1						
33	0	954.5	927.0		41	0	1136.3	1103.6						
33	3	960.2	932.5		41	3	1142.0	1109.1						
33	6	965.9	938.0		41	6	1147.7	1114.7						
33	9	971.5	943.6		41	9	1153.4	1120.2						
34	0	977.2	949.1		42	0	1159.1	1125.7						
34	3	982.9	954.6		42	3	1164.8	1131.2						
34	6	988.6	960.1		42	6	1170.4	1136.7						
34	9	994.3	965.6		42	9	1176.1	1142.3						

NOTE: LIQUID LEVEL AT 100% FULL IS 7-1/2 IN ABOVE TOP OF SNDG TUBE

Q 7024 100 % SOUNDING 48FT 5-5/8IN 1298.1 TONS SW 1260.77 TONS FW

TOTAL SOUNDING TUBE LENGTH 47FT 10-1/8 IN

SHIP- ALMERIA LYKES
TANK NO- 12-STBD FRS 109-128
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	3.6	3.5		9	0	228.7	222.1		18	0	535.4	520.0	
0	3	6.1	5.9		9	3	236.8	230.0		18	3	544.0	528.3	
0	6	9.0	8.7		9	6	244.9	237.8		18	6	552.5	536.6	
0	9	12.2	11.8		9	9	253.3	246.0		18	9	561.1	544.9	
1	0	15.7	15.3		10	0	261.8	254.3		19	0	569.6	553.2	
1	3	19.6	19.0		10	3	270.4	262.6		19	3	578.2	561.5	
1	6	23.7	23.0		10	6	278.9	270.9		19	6	586.7	569.8	
1	9	28.2	27.4		10	9	287.5	279.2		19	9	595.3	578.1	
2	0	33.0	32.0		11	0	296.0	287.5		20	0	603.8	586.4	
2	3	38.1	37.0		11	3	304.6	295.8		20	3	612.4	594.7	
2	6	43.5	42.3		11	6	313.1	304.1		20	6	620.9	603.1	
2	9	49.3	47.9		11	9	321.7	312.4		20	9	629.5	611.4	
3	0	55.4	53.8		12	0	330.2	320.7		21	0	638.0	619.7	
3	3	61.8	60.0		12	3	338.8	329.0		21	3	646.6	628.0	
3	6	68.5	66.5		12	6	347.3	337.3		21	6	655.1	636.3	
3	9	75.3	73.1		12	9	355.9	345.6		21	9	663.7	644.6	
4	0	81.9	79.5		13	0	364.4	353.9		22	0	672.2	652.9	
4	3	88.6	86.0		13	3	373.0	362.2		22	3	680.8	661.2	
4	6	95.3	92.6		13	6	381.5	370.5		22	6	689.3	669.5	
4	9	102.2	99.2		13	9	390.1	378.8		22	9	697.9	677.8	
5	0	109.1	105.9		14	0	398.6	387.1		23	0	706.4	686.1	
5	3	116.0	112.7		14	3	407.2	395.5		23	3	715.0	694.4	
5	6	123.1	119.5		14	6	415.7	403.8		23	6	723.5	702.7	
5	9	130.2	126.4		14	9	424.3	412.1		23	9	732.1	711.0	
6	0	137.3	133.4		15	0	432.8	420.4		24	0	740.6	719.3	
6	3	144.6	140.4		15	3	441.4	428.7		24	3	749.2	727.6	
6	6	151.9	147.5		15	6	449.9	437.0		24	6	757.7	735.9	
6	9	159.3	154.7		15	9	458.5	445.3		24	9	766.3	744.2	
7	0	166.7	161.9		16	0	467.0	453.6		25	0	774.8	752.5	
7	3	174.2	169.2		16	3	475.6	461.9		25	3	783.4	760.8	
7	6	181.8	176.6		16	6	484.1	470.2		25	6	791.9	769.1	
7	9	189.4	184.0		16	9	492.7	478.5		25	9	800.5	777.4	
8	0	197.2	191.5		17	0	501.2	486.8		26	0	809.0	785.7	
8	3	205.0	199.0		17	3	509.8	495.1		26	3	817.6	794.0	
8	6	212.8	206.7		17	6	518.3	503.4		26	6	826.1	802.3	
8	9	220.7	214.4		17	9	526.9	511.7		26	9	834.7	810.7	

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SHIP- ALMERIA LYKES
TANK NO- 12-STBD FRS 109-128
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	843.2	819.0		35	0	1109.8	1077.8						
27	3	851.8	827.3		35	3	1114.0	1081.9						
27	6	860.3	835.6		35	6	1118.2	1086.0						
27	9	868.9	843.9											
28	0	877.4	852.2											
28	3	886.0	860.5											
28	6	894.5	868.8											
28	9	903.1	877.1											
29	0	911.6	885.4											
29	3	920.2	893.7											
29	6	928.7	902.0											
29	9	937.3	910.3											
30	0	945.8	918.6											
30	3	954.4	926.9											
30	6	962.9	935.2											
30	9	971.5	943.5											
31	0	980.0	951.8											
31	3	988.6	960.1											
31	6	997.1	968.4											
31	9	1005.7	976.7											
32	0	1014.2	985.0											
32	3	1022.8	993.3											
32	6	1031.3	1001.6											
32	9	1039.9	1009.9											
33	0	1048.4	1018.3											
33	3	1057.0	1026.6											
33	6	1065.5	1034.9											
33	9	1074.1	1043.2											
34	0	1082.6	1051.5											
34	3	1091.2	1059.8											
34	6	1099.7	1068.1											
34	9	1105.5	1073.7											

NOTE: LIQUID LEVEL AT 100% FULL IS 1-1/4 IN ABOVE TOP OF SNDG TUBE

Q 7024 100 % SOUNDING 35FT 7-3/4 IN 1120.1 TONS SW 1087.82 TONS FW

TOTAL SOUNDING TUBE LENGTH 35FT 6-1/2 IN

SHIP- ALMERIA LYKES
TANK NO- 12-PORT FRS 109-128
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
0	0	3.2	3.1		9	0	216.2	210.0		18	0	521.7	506.6	
0	3	5.4	5.2		9	3	224.1	217.7		18	3	530.2	514.9	
0	6	7.8	7.6		9	6	232.1	225.4		18	6	538.7	523.2	
0	9	10.5	10.2		9	9	240.2	233.3		18	9	547.3	531.5	
1	0	13.4	13.0		10	0	248.4	241.2		19	0	555.8	539.8	
1	3	16.6	16.1		10	3	256.9	249.5		19	3	564.4	548.1	
1	6	20.0	19.4		10	6	265.4	257.8		19	6	572.9	556.4	
1	9	23.7	23.0		10	9	274.0	266.1		19	9	581.4	564.7	
2	0	27.6	26.8		11	0	282.5	274.4		20	0	590.0	573.0	
2	3	31.7	30.8		11	3	291.1	282.7		20	3	598.5	581.3	
2	6	36.6	35.6		11	6	299.6	291.0		20	6	607.1	589.6	
2	9	41.9	40.7		11	9	308.1	299.3		20	9	615.6	597.9	
3	0	47.4	46.1		12	0	316.7	307.6		21	0	624.1	606.2	
3	3	53.3	51.8		12	3	325.2	315.9		21	3	632.7	614.5	
3	6	59.5	57.8		12	6	333.8	324.2		21	6	641.2	622.8	
3	9	66.0	64.1		12	9	342.3	332.4		21	9	649.8	631.1	
4	0	72.7	70.6		13	0	350.8	340.7		22	0	658.3	639.3	
4	3	79.2	76.9		13	3	359.4	349.0		22	3	666.8	647.6	
4	6	85.7	83.2		13	6	367.9	357.3		22	6	675.4	655.9	
4	9	92.3	89.7		13	9	376.5	365.6		22	9	683.9	664.2	
5	0	99.0	96.1		14	0	385.0	373.9		23	0	692.5	672.5	
5	3	105.7	102.7		14	3	393.6	382.2		23	3	701.0	680.8	
5	6	112.5	109.3		14	6	402.1	390.5		23	6	709.5	689.1	
5	9	119.4	116.0		14	9	410.6	398.8		23	9	718.1	697.4	
6	0	126.3	122.7		15	0	419.2	407.1		24	0	726.6	705.7	
6	3	133.3	129.5		15	3	427.7	415.4		24	3	735.2	714.0	
6	6	140.5	136.4		15	6	436.3	423.7		24	6	743.7	722.3	
6	9	147.8	143.5		15	9	444.8	432.0		24	9	752.2	730.6	
7	0	155.1	150.6		16	0	453.3	440.3		25	0	760.8	738.9	
7	3	162.5	157.8		16	3	461.9	448.6		25	3	769.3	747.2	
7	6	169.9	165.1		16	6	470.4	456.9		25	6	777.9	755.5	
7	9	177.5	172.4		16	9	479.0	465.2		25	9	786.4	763.8	
8	0	185.1	179.8		17	0	487.5	473.5		26	0	794.9	772.0	
8	3	192.8	187.2		17	3	496.0	481.8		26	3	803.5	780.3	
8	6	200.5	194.7		17	6	504.6	490.1		26	6	812.0	788.6	
8	9	208.3	202.3		17	9	513.1	498.3		26	9	820.6	796.9	

Q 7024

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SHIP- ALMERIA LYKES
TANK NO- 12-PORT FRS 109-128
TANK TYPE- S.W. BALLAST

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW		FT	IN	TONS SW	TONS FW	
27	0	829.1	805.2		35	0	1102.4	1070.6						
27	3	837.6	813.5		35	3	1106.8	1075.0						
27	6	846.2	821.8		35	6	1111.1	1079.1						
27	9	854.7	830.1		35	9	1115.3	1083.2						
28	0	863.3	838.4											
28	3	871.8	846.7											
28	6	880.3	855.0											
28	9	888.9	863.3											
29	0	897.4	871.6											
29	3	906.0	879.9											
29	6	914.5	888.2											
29	9	923.0	896.5											
30	0	931.6	904.8											
30	3	940.1	913.0											
30	6	948.7	921.3											
30	9	957.2	929.6											
31	0	965.7	937.9											
31	3	974.3	946.2											
31	6	982.8	954.5											
31	9	991.4	962.8											
32	0	999.9	971.1											
32	3	1008.4	979.4											
32	6	1017.0	987.7											
32	9	1025.5	996.0											
33	0	1034.1	1004.3											
33	3	1042.6	1012.6											
33	6	1051.1	1020.9											
33	9	1059.7	1029.2											
34	0	1068.2	1037.5											
34	3	1076.8	1045.8											
34	6	1085.3	1054.0											
34	9	1093.8	1062.3											

NOTE: LIQUID LEVEL AT 100% FULL IS 1-1/4 IN ABOVE TOP OF SNDG TUBE

Q 7024
100 % SOUNDING 36FT 0-1/2 IN 1120.1 TONS SW 1087.82 TONS FW
TOTAL SOUNDING TUBE LENGTH 35FT 11-1/4 IN

SHIP- ALMERIA LYKES
TANK NO- 3-C.L. FRS 40-46
TANK TYPE- FUEL OIL STORAGE

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
0	0	9.	1.3	.2 BBL	9	0	2414.	364.1	11.0 BBL	18	0	5426.	818.5	11.0 BBL
0	3	44.	6.7		9	3	2498.	376.7		18	3	5510.	831.1	
0	6	82.	12.4	TON	9	6	2581.	389.4	1.7 TON	18	6	5593.	843.7	1.7 TON
0	9	122.	18.4		9	9	2665.	402.0		18	9	5677.	856.3	
1	0	163.	24.6	3.6 BBL	10	0	2749.	414.6	11.0 BBL	19	0	5761.	869.0	11.0 BBL
1	3	206.	31.1		10	3	2832.	427.2		19	3	5844.	881.6	
1	6	252.	37.9	.5 TON	10	6	2916.	439.9	1.7 TON	19	6	5928.	894.2	1.7 TON
1	9	299.	45.0		10	9	3000.	452.5		19	9	6012.	906.8	
2	0	347.	52.4	6.9 BBL	11	0	3083.	465.1	11.0 BBL	20	0	6095.	919.4	11.0 BBL
2	3	398.	60.0		11	3	3167.	477.7		20	3	6179.	932.1	
2	6	451.	68.0	1.0 TON	11	6	3251.	490.3	1.7 TON	20	6	6263.	944.7	1.7 TON
2	9	505.	76.2		11	9	3334.	503.0		20	9	6346.	957.3	
3	0	561.	84.6	8.1 BBL	12	0	3418.	515.6	11.0 BBL	21	0	6430.	969.9	11.0 BBL
3	3	619.	93.4		12	3	3502.	528.2		21	3	6514.	982.5	
3	6	679.	102.5	1.2 TON	12	6	3585.	540.8	1.7 TON	21	6	6597.	995.2	1.7 TON
3	9	741.	111.8		12	9	3669.	553.4		21	9	6681.	1007.8	
4	0	805.	121.4	9.1 BBL	13	0	3753.	566.1	11.0 BBL	22	0	6765.	1020.4	11.0 BBL
4	3	870.	131.3		13	3	3836.	578.7		22	3	6848.	1033.0	
4	6	938.	141.4	1.4 TON	13	6	3920.	591.3	1.7 TON	22	6	6932.	1045.6	1.7 TON
4	9	1007.	151.9		13	9	4004.	603.9		22	9	7016.	1058.3	
5	0	1078.	162.6	9.9 BBL	14	0	4087.	616.5	11.0 BBL	23	0	7099.	1070.9	11.0 BBL
5	3	1151.	173.6		14	3	4171.	629.2		23	3	7183.	1083.5	
5	6	1225.	184.9	1.5 TON	14	6	4255.	641.8	1.7 TON	23	6	7267.	1096.1	1.7 TON
5	9	1302.	196.4		14	9	4338.	654.4		23	9	7350.	1108.7	
6	0	1381.	208.2	10.5 BBL	15	0	4422.	667.0	11.0 BBL	24	0	7434.	1121.4	11.0 BBL
6	3	1461.	220.4		15	3	4506.	679.6		24	3	7518.	1134.0	
6	6	1543.	232.8	1.6 TON	15	6	4589.	692.3	1.7 TON	24	6	7601.	1146.6	1.7 TON
6	9	1627.	245.4		15	9	4673.	704.9		24	9	7685.	1159.2	
7	0	1713.	258.4	10.9 BBL	16	0	4757.	717.5	11.0 BBL	25	0	7769.	1171.9	11.0 BBL
7	3	1801.	271.6		16	3	4840.	730.1		25	3	7853.	1184.5	
7	6	1890.	285.1	1.6 TON	16	6	4924.	742.7	1.7 TON	25	6	7936.	1197.1	1.7 TON
7	9	1982.	298.9		16	9	5008.	755.4		25	9	8020.	1209.7	
8	0	2075.	313.0	11.0 BBL	17	0	5091.	768.0	11.0 BBL	26	0	8104.	1222.3	11.0 BBL
8	3	2163.	326.3		17	3	5175.	780.6		26	3	8187.	1235.0	
8	6	2247.	338.9	1.7 TON	17	6	5259.	793.2	1.7 TON	26	6	8271.	1247.6	1.7 TON
8	9	2330.	351.5		17	9	5342.	805.9		26	9	8355.	1260.2	

Q 7024

CONTINUED ON NEXT PAGE

SHIP- ALMERIA LYKES
TANK NO- 3-C.L. FRS 40-46
TANK TYPE- FUEL OIL STORAGE

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
27	0	8438.	1272.8	11.0 BBL										
27	3	8522.	1285.4											
27	6	8606.	1298.1	1.7 TON										
27	9	8689.	1310.7											
28	0	8773.	1323.3	11.0 BBL										
28	3	8857.	1335.9											
28	6	8940.	1348.5	1.7 TON										
28	9	9024.	1361.2											
29	0	9108.	1373.8	11.0 BBL										
29	3	9191.	1386.4											
29	6	9275.	1399.0	1.7 TON										
29	9	9359.	1411.6											
30	0	9432.	1422.7	11.0 BBL										
30	3	9474.	1429.0											

Q 7024
100 % SOUNDING 30FT 5-1/8 IN 9504. BARRELS 1433.54 TONS FO
98.00 % SOUNDING 29 FT 7-1/2 IN 9314. BARRELS 1404.87 TONS FO
.TOTAL SOUNDING TUBE LENGTH 44FT 10-5/8 IN

SHIP- ALMERIA LYKES
TANK NO- 4-C.L. FRS 46-52
TANK TYPE- FUEL OIL STORAGE

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
0	0	43.	6.5	.8 BBL	9	0	2921.	440.6	11.0 BBL	18	0	5935.	895.3	11.0 BBL
0	3	116.	17.5		9	3	3005.	453.2		18	3	6019.	907.9	
0	6	188.	28.4	.1 TON	9	6	3088.	465.9	1.7 TON	18	6	6103.	920.6	1.7 TON
0	9	260.	39.3		9	9	3172.	478.5		18	9	6187.	933.2	
1	0	333.	50.2	6.1 BBL	10	0	3256.	491.1	11.0 BBL	19	0	6270.	945.8	11.0 BBL
1	3	405.	61.1		10	3	3340.	503.7		19	3	6354.	958.5	
1	6	478.	72.0	.9 TON	10	6	3423.	516.4	1.7 TON	19	6	6438.	971.1	1.7 TON
1	9	550.	82.9		10	9	3507.	529.0		19	9	6522.	983.7	
2	0	622.	93.9	10.6 BBL	11	0	3591.	541.6	11.0 BBL	20	0	6605.	996.4	11.0 BBL
2	3	695.	104.8		11	3	3675.	554.3		20	3	6689.	1009.0	
2	6	767.	115.7	1.6 TON	11	6	3758.	566.9	1.7 TON	20	6	6773.	1021.6	1.7 TON
2	9	839.	126.6		11	9	3842.	579.5		20	9	6857.	1034.2	
3	0	912.	137.5	11.0 BBL	12	0	3926.	592.2	11.0 BBL	21	0	6940.	1046.9	11.0 BBL
3	3	995.	150.1		12	3	4010.	604.8		21	3	7024.	1059.5	
3	6	1079.	162.7	1.7 TON	12	6	4093.	617.4	1.7 TON	21	6	7108.	1072.1	1.7 TON
3	9	1162.	175.3		12	9	4177.	630.1		21	9	7192.	1084.8	
4	0	1246.	188.0	11.0 BBL	13	0	4261.	642.7	11.0 BBL	22	0	7275.	1097.4	11.0 BBL
4	3	1330.	200.6		13	3	4344.	655.3		22	3	7359.	1110.0	
4	6	1414.	213.2	1.7 TON	13	6	4428.	667.9	1.7 TON	22	6	7443.	1122.7	1.7 TON
4	9	1497.	225.9		13	9	4512.	680.6		22	9	7526.	1135.3	
5	0	1581.	238.5	11.0 BBL	14	0	4596.	693.2	11.0 BBL	23	0	7610.	1147.9	11.0 BBL
5	3	1665.	251.1		14	3	4679.	705.8		23	3	7694.	1160.6	
5	6	1749.	263.8	1.7 TON	14	6	4763.	718.5	1.7 TON	23	6	7778.	1173.2	1.7 TON
5	9	1832.	276.4		14	9	4847.	731.1		23	9	7861.	1185.8	
6	0	1916.	289.0	11.0 BBL	15	0	4931.	743.7	11.0 BBL	24	0	7945.	1198.4	11.0 BBL
6	3	2000.	301.7		15	3	5014.	756.4		24	3	8029.	1211.1	
6	6	2084.	314.3	1.7 TON	15	6	5098.	769.0	1.7 TON	24	6	8113.	1223.7	1.7 TON
6	9	2167.	326.9		15	9	5182.	781.6		24	9	8196.	1236.3	
7	0	2251.	339.5	11.0 BBL	16	0	5266.	794.3	11.0 BBL	25	0	8280.	1249.0	11.0 BBL
7	3	2335.	352.2		16	3	5349.	806.9		25	3	8364.	1261.6	
7	6	2418.	364.8	1.7 TON	16	6	5433.	819.5	1.7 TON	25	6	8448.	1274.2	1.7 TON
7	9	2502.	377.4		16	9	5517.	832.2		25	9	8531.	1286.9	
8	0	2586.	390.1	11.0 BBL	17	0	5601.	844.8	11.0 BBL	26	0	8615.	1299.5	11.0 BBL
8	3	2670.	402.7		17	3	5684.	857.4		26	3	8699.	1312.1	
8	6	2753.	415.3	1.7 TON	17	6	5768.	870.0	1.7 TON	26	6	8783.	1324.8	1.7 TON
8	9	2837.	428.0		17	9	5852.	882.7		26	9	8866.	1337.4	

Q 7024

CONTINUED ON NEXT PAGE

SHIP- ALMERIA LYKES
TANK NO- 4-C.L. FRS 46-52
TANK TYPE- FUEL OIL STORAGE

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
27	0	8950.	1350.0	11.0 BBL										
27	3	9034.	1362.7											
27	6	9117.	1375.3	1.7 TON										
27	9	9201.	1387.9											
28	0	9285.	1400.5	11.0 BBL										
28	3	9369.	1413.2											
28	6	9452.	1425.8	1.7 TON										
28	9	9536.	1438.4											
29	0	9620.	1451.1	11.0 BBL										
29	3	9704.	1463.7											
29	6	9787.	1476.3	1.7 TON										
29	9	9871.	1489.0											
30	0	9955.	1501.6	11.0 BBL										
30	3	10039.	1514.2											
30	6	10089.	1521.8	1.7 TON										
30	9	10131.	1528.2											

Q 7024
100 % SOUNDING 30FT 9-3/8 IN 10136. BARRELS 1528.96 TONS FO
98.00 % SOUNDING 29 FT 11-1/4 IN 9934. BARRELS 1498.38 TONS FO
TOTAL SOUNDING TUBE LENGTH 46 FT 4-1/8 IN

SHIP- ALMERIA LYKES
TANK NO- 5-C.L. FRS 52-58
TANK TYPE- FUEL OIL STORAGE

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
0	0	35.	5.2	2.7 BBL	9	0	3035.	457.8	11.0 BBL	18	0	6035.	910.4	11.0 BBL
0	3	118.	17.8		9	3	3118.	470.4		18	3	6119.	922.9	
0	6	201.	30.3	.4 TON	9	6	3202.	482.9	1.7 TON	18	6	6202.	935.5	1.7 TON
0	9	285.	42.9		9	9	3285.	495.5		18	9	6285.	948.1	
1	0	368.	55.5	11.0 BBL	10	0	3368.	508.1	11.0 BBL	19	0	6369.	960.6	11.0 BBL
1	3	451.	68.1		10	3	3452.	520.6		19	3	6452.	973.2	
1	6	535.	80.6	1.7 TON	10	6	3535.	533.2	1.7 TON	19	6	6535.	985.8	1.7 TON
1	9	618.	93.2		10	9	3618.	545.8		19	9	6619.	998.4	
2	0	701.	105.8	11.0 BBL	11	0	3702.	558.4	11.0 BBL	20	0	6702.	1010.9	11.0 BBL
2	3	785.	118.4		11	3	3785.	570.9		20	3	6785.	1023.5	
2	6	868.	130.9	1.7 TON	11	6	3868.	583.5	1.7 TON	20	6	6869.	1036.1	1.7 TON
2	9	951.	143.5		11	9	3952.	596.1		20	9	6952.	1048.7	
3	0	1035.	156.1	11.0 BBL	12	0	4035.	608.6	11.0 BBL	21	0	7035.	1061.2	11.0 BBL
3	3	1118.	168.6		12	3	4118.	621.2		21	3	7119.	1073.8	
3	6	1201.	181.2	1.7 TON	12	6	4202.	633.8	1.7 TON	21	6	7202.	1086.4	1.7 TON
3	9	1285.	193.8		12	9	4285.	646.4		21	9	7285.	1098.9	
4	0	1368.	206.4	11.0 BBL	13	0	4368.	658.9	11.0 BBL	22	0	7369.	1111.5	11.0 BBL
4	3	1451.	218.9		13	3	4452.	671.5		22	3	7452.	1124.1	
4	6	1535.	231.5	1.7 TON	13	6	4535.	684.1	1.7 TON	22	6	7535.	1136.7	1.7 TON
4	9	1618.	244.1		13	9	4618.	696.6		22	9	7619.	1149.2	
5	0	1701.	256.6	11.0 BBL	14	0	4702.	709.2	11.0 BBL	23	0	7702.	1161.8	11.0 BBL
5	3	1785.	269.2		14	3	4785.	721.8		23	3	7786.	1174.4	
5	6	1868.	281.8	1.7 TON	14	6	4868.	734.4	1.7 TON	23	6	7869.	1186.9	1.7 TON
5	9	1951.	294.4		14	9	4952.	746.9		23	9	7952.	1199.5	
6	0	2035.	306.9	11.0 BBL	15	0	5035.	759.5	11.0 BBL	24	0	8036.	1212.1	11.0 BBL
6	3	2118.	319.5		15	3	5118.	772.1		24	3	8119.	1224.7	
6	6	2201.	332.1	1.7 TON	15	6	5202.	784.6	1.7 TON	24	6	8202.	1237.2	1.7 TON
6	9	2285.	344.6		15	9	5285.	797.2		24	9	8286.	1249.8	
7	0	2368.	357.2	11.0 BBL	16	0	5369.	809.8	11.0 BBL	25	0	8369.	1262.4	11.0 BBL
7	3	2451.	369.8		16	3	5452.	822.4		25	3	8452.	1274.9	
7	6	2535.	382.4	1.7 TON	16	6	5535.	834.9	1.7 TON	25	6	8536.	1287.5	1.7 TON
7	9	2618.	394.9		16	9	5619.	847.5		25	9	8619.	1300.1	
8	0	2702.	407.5	11.0 BBL	17	0	5702.	860.1	11.0 BBL	26	0	8702.	1312.7	11.0 BBL
8	3	2785.	420.1		17	3	5785.	872.6		26	3	8786.	1325.2	
8	6	2868.	432.6	1.7 TON	17	6	5869.	885.2	1.7 TON	26	6	8869.	1337.8	1.7 TON
8	9	2952.	445.2		17	9	5952.	897.8		26	9	8952.	1350.4	

Q 7024

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SHIP- ALMERIA LYKES
TANK NO- 5-C.L. FRS 52-58
TANK TYPE- FUEL OIL STORAGE

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
27	0	9036.	1362.9	11.0 BBL										
27	3	9119.	1375.5											
27	6	9202.	1388.1	1.7 TON										
27	9	9286.	1400.7											
28	0	9369.	1413.2	11.0 BBL										
28	3	9452.	1425.8											
28	6	9536.	1438.4	1.7 TON										
28	9	9619.	1450.9											
29	0	9702.	1463.5	11.0 BBL										
29	3	9786.	1476.1											
29	6	9869.	1488.7	1.7 TON										
29	9	9952.	1501.2											
30	0	10036.	1513.8	11.0 BBL										
30	3	10119.	1526.4											
30	6	10202.	1538.9	1.7 TON										
30	9	10286.	1551.5											
31	0	10339.	1559.5	11.0 BBL										
31	3	10381.	1565.8											

Q 7024
100 % SOUNDING 31FT 3-5/8 IN 10390. BARRELS 1567.28 TONS FO
98.00 % SOUNDING 30 FT 5-1/4 IN 10183. BARRELS 1535.94 TONS FO
TOTAL SOUNDING TUBE LENGTH 45FT 5-1/2 IN

SHIP- ALMERIA LYKES
TANK NO- REDUCTION GEAR
TANK TYPE- LUBE OIL SUMP

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S29-01-08

FT	IN	GALLONS	TONS LO
0	0	44.	0.2
0	3	114.	0.4
0	6	183.	0.6
0	9	253.	0.9
1	0	322.	1.1
1	3	392.	1.3
1	6	461.	1.6
1	9	583.	2.0
2	0	708.	2.4
2	3	833.	2.9
2	6	957.	3.3
2	9	1135.	3.9

Q 7024
100 % SOUNDING 2FT 11-3/4 IN 1300. GALLONS 4.46 TONS LO
TOTAL SOUNDING TUBE LENGTH 5FT 3-1/8 IN
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SHIP- ALMERIA LYKES
TANK NO- FR 87-88 PORT
TANK TYPE- DIESEL OIL STOR.

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	GALLONS	TONS DO
0	0	-0.	-0.0
0	3	76.	0.2
0	6	153.	0.5
0	9	229.	0.7
1	0	305.	0.9
1	3	381.	1.2
1	6	458.	1.4
1	9	534.	1.7
2	0	610.	1.9
2	3	687.	2.1
2	6	763.	2.4
2	9	839.	2.6
3	0	916.	2.8
3	3	992.	3.1
3	6	1068.	3.3
3	9	1144.	3.5
4	0	1221.	3.8

NOTE: NO SOUNDING TUBE FITTED.

Q 7024
100 % SOUNDING 4FT 0-7/8 IN 1245. GALLONS 3.86 TONS DO
98.00 % SOUNDING 3 FT 12 IN 1220. GALLONS 3.78 TONS DO
TOTAL SOUNDING TUBE LENGTH 4FT 0-7/8 IN
PAGE 85
96

SHIP- ALMERIA LYKES
TANK NO- FRS 79-80 STBD
TANK TYPE- LUBE OIL STORAGE

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	GALLONS	TONS LO
0	0	50.	0.2
0	3	116.	0.4
0	6	182.	0.6
0	9	247.	0.8
1	0	313.	1.1
1	3	379.	1.3
1	6	445.	1.5
1	9	511.	1.8
2	0	577.	2.0
2	3	642.	2.2
2	6	708.	2.4
2	9	774.	2.7
3	0	840.	2.9
3	3	906.	3.1
3	6	972.	3.3
3	9	1037.	3.6
4	0	1103.	3.8
4	3	1169.	4.0
4	6	1235.	4.2
4	9	1301.	4.5
5	0	1366.	4.7
5	3	1432.	4.9
5	6	1498.	5.1
5	9	1564.	5.4
6	0	1630.	5.6
6	3	1696.	5.8

Q 7024
100 % SOUNDING 6FT 5-1/4 IN 1745. GALLONS 5.99 TONS LO
98.00 % SOUNDING 6 FT 4 IN 1710. GALLONS 5.37 TONS LO
TOTAL SOUNDING TUBE LENGTH 8FT 8-1/4 IN
PAGE 82
93

SHIP- ALMERIA LYKES
TANK NO- FRS 79-80 STBD
TANK TYPE- LUBE OIL SETTLER

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	GALLONS	TONS LO
0	0	18.	0.1
0	3	55.	0.2
0	6	92.	0.3
0	9	129.	0.4
1	0	166.	0.6
1	3	203.	0.7
1	6	247.	0.8
1	9	296.	1.0
2	0	345.	1.2
2	3	395.	1.4
2	6	444.	1.5
2	9	494.	1.7
3	0	543.	1.9
3	3	592.	2.0
3	6	642.	2.2
3	9	691.	2.4
4	0	740.	2.5
4	3	790.	2.7
4	6	839.	2.9
4	9	888.	3.0
5	0	938.	3.2
5	3	987.	3.4
5	6	1037.	3.6
5	9	1086.	3.7
6	0	1135.	3.9
6	3	1185.	4.1

Q 7024
100 % SOUNDING 6FT 5-7/8 IN 1236. GALLONS 4.24 TONS LO
98.00 % SOUNDING 6 FT 4-1/2 IN 1211. GALLONS 4.15 TONS LO
TOTAL SOUNDING TUBE LENGTH 8FT 8-5/8 IN
PAGE 83
94

SHIP- ALMERIA LYKES
TANK NO- FRS 76-81
TANK TYPE- F.O. OVERFLOW

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	BARRELS	TONS FO	TCF
0	0	3.	0.4	.3 BBL
0	3	14.	2.2	
0	6	34.	5.1	TON
0	9	62.	9.3	
1	0	92.	13.9	1.9 BBL
1	3	124.	18.7	
1	6	158.	23.8	.3 TON
1	9	194.	29.2	
2	0	231.	34.9	2.2 BBL
2	3	271.	40.8	
2	6	310.	46.8	.3 TON
2	9	351.	52.9	
3	0	392.	59.1	2.5 BBL
3	3	434.	65.5	
3	6	478.	72.0	.4 TON
3	9	521.	78.7	
4	0	566.	85.4	2.6 BBL
4	3	613.	92.4	
4	6	660.	99.6	.4 TON
4	9	709.	106.9	
5	0	757.	114.2	2.7 BBL
5	3	803.	121.1	
5	6	846.	127.7	.4 TON
5	9	887.	133.8	

Q 7024
100 % SOUNDING 5FT 10-1/2 IN 906. BARRELS 136.71 TONS FO
98.00 % SOUNDING 5 FT 9-1/4 IN 888. BARRELS 133.98 TONS FO
TOTAL SOUNDING TUBE LENGTH 12FT 3-7/8 IN
PAGE 80
91

SHIP- ALMERIA LYKES
TANK NO- FRS 76-79
TANK TYPE- F.O. SLUDGE

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	BARRELS	TONS FO	TCF
0	0	8.	1.2	.4 BBL
0	3	41.	6.2	
0	6	76.	11.5	.1 TON
0	9	114.	17.2	
1	0	153.	23.1	.6 BBL
1	3	194.	29.3	
1	6	237.	35.8	.1 TON
1	9	283.	42.6	
2	0	330.	49.7	.6 BBL
2	3	366.	55.2	
2	6	403.	60.7	.1 TON
2	9	439.	66.2	
3	0	476.	71.7	.6 BBL
3	3	512.	77.3	
3	6	549.	82.8	.1 TON
3	9	585.	88.3	
4	0	622.	93.8	.6 BBL
4	3	658.	99.3	
4	6	695.	104.8	.1 TON
4	9	731.	110.3	
5	0	768.	115.8	.6 BBL
5	3	804.	121.3	
5	6	840.	126.8	.1 TON
5	9	877.	132.3	

Q 7024
100 % SOUNDING 5FT 11 IN 901. BARRELS 135.95 TONS FO
98.00 % SOUNDING 5 FT 9-3/4 IN 883. BARRELS 133.23 TONS FO
TOTAL SOUNDING TUBE LENGTH 12FT 10-1/4 IN
PAGE 81
92

SHIP- ALMERIA LYKES
TANK NO- 6-C.L. FRS 58-64
TANK TYPE- FUEL OIL SETTLER

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
0	0	15.	2.2	1.4 BBL	9	0	3009.	453.9	11.0 BBL	18	0	6004.	905.7	11.0 BBL
0	3	98.	14.8		9	3	3093.	466.5		18	3	6087.	918.2	
0	6	181.	27.3	.2 TON	9	6	3176.	479.0	1.7 TON	18	6	6170.	930.7	1.7 TON
0	9	264.	39.9		9	9	3259.	491.6		18	9	6254.	943.3	
1	0	348.	52.4	11.0 BBL	10	0	3342.	504.1	11.0 BBL	19	0	6337.	955.8	11.0 BBL
1	3	431.	65.0		10	3	3425.	516.7		19	3	6420.	968.4	
1	6	514.	77.5	1.7 TON	10	6	3509.	529.2	1.7 TON	19	6	6503.	980.9	1.7 TON
1	9	597.	90.1		10	9	3592.	541.8		19	9	6586.	993.5	
2	0	680.	102.6	11.0 BBL	11	0	3675.	554.3	11.0 BBL	20	0	6670.	1006.0	11.0 BBL
2	3	764.	115.2		11	3	3758.	566.9		20	3	6753.	1018.6	
2	6	847.	127.7	1.7 TON	11	6	3841.	579.4	1.7 TON	20	6	6836.	1031.1	1.7 TON
2	9	930.	140.3		11	9	3924.	592.0		20	9	6919.	1043.7	
3	0	1013.	152.8	11.0 BBL	12	0	4008.	604.5	11.0 BBL	21	0	7002.	1056.2	11.0 BBL
3	3	1096.	165.4		12	3	4091.	617.1		21	3	7085.	1068.8	
3	6	1179.	177.9	1.7 TON	12	6	4174.	629.6	1.7 TON	21	6	7169.	1081.3	1.7 TON
3	9	1263.	190.5		12	9	4257.	642.2		21	9	7252.	1093.9	
4	0	1346.	203.0	11.0 BBL	13	0	4340.	654.7	11.0 BBL	22	0	7335.	1106.4	11.0 BBL
4	3	1429.	215.5		13	3	4424.	667.3		22	3	7418.	1119.0	
4	6	1512.	228.1	1.7 TON	13	6	4507.	679.8	1.7 TON	22	6	7501.	1131.5	1.7 TON
4	9	1595.	240.6		13	9	4590.	692.3		22	9	7585.	1144.1	
5	0	1679.	253.2	11.0 BBL	14	0	4673.	704.9	11.0 BBL	23	0	7668.	1156.6	11.0 BBL
5	3	1762.	265.7		14	3	4756.	717.4		23	3	7751.	1169.2	
5	6	1845.	278.3	1.7 TON	14	6	4840.	730.0	1.7 TON	23	6	7834.	1181.7	1.7 TON
5	9	1928.	290.8		14	9	4923.	742.5		23	9	7917.	1194.2	
6	0	2011.	303.4	11.0 BBL	15	0	5006.	755.1	11.0 BBL	24	0	8000.	1206.8	11.0 BBL
6	3	2094.	315.9		15	3	5089.	767.6		24	3	8084.	1219.3	
6	6	2178.	328.5	1.7 TON	15	6	5172.	780.2	1.7 TON	24	6	8167.	1231.9	1.7 TON
6	9	2261.	341.0		15	9	5255.	792.7		24	9	8250.	1244.4	
7	0	2344.	353.6	11.0 BBL	16	0	5339.	805.3	11.0 BBL	25	0	8333.	1257.0	11.0 BBL
7	3	2427.	366.1		16	3	5422.	817.8		25	3	8416.	1269.5	
7	6	2510.	378.7	1.7 TON	16	6	5505.	830.4	1.7 TON	25	6	8500.	1282.1	1.7 TON
7	9	2594.	391.2		16	9	5588.	842.9		25	9	8583.	1294.6	
8	0	2677.	403.8	11.0 BBL	17	0	5671.	855.5	11.0 BBL	26	0	8666.	1307.2	11.0 BBL
8	3	2760.	416.3		17	3	5755.	868.0		26	3	8749.	1319.7	
8	6	2843.	428.9	1.7 TON	17	6	5838.	880.6	1.7 TON	26	6	8832.	1332.3	1.7 TON
8	9	2926.	441.4		17	9	5921.	893.1		26	9	8915.	1344.8	

Q 7024

CONTINUED ON NEXT PAGE

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SHIP- ALMERIA LYKES
TANK NO- 6-C.L. FRS 58-64
TANK TYPE- FUEL OIL SETTLER

TANK SOUNDING TABLE
EVEN KEEL

MARAD DWG NO- S-29-01-08

FT	IN	BARRELS	TONS FO	TCF
27	0	8999.	1357.4	11.0 BBL
27	3	9082.	1369.9	
27	6	9165.	1382.5	1.7 TON
27	9	9248.	1395.0	
28	0	9331.	1407.6	11.0 BBL
28	3	9415.	1420.1	
28	6	9498.	1432.6	1.7 TON
28	9	9581.	1445.2	
29	0	9664.	1457.7	11.0 BBL
29	3	9747.	1470.3	
29	6	9831.	1482.8	1.7 TON
29	9	9914.	1495.4	
30	0	9997.	1507.9	11.0 BBL
30	3	10080.	1520.5	
30	6	10163.	1533.0	1.7 TON
30	9	10246.	1545.6	
31	0	10330.	1558.1	11.0 BBL
31	3	10413.	1570.7	
31	6	10473.	1579.8	1.7 TON
31	9	10515.	1586.1	

Q 7024
100 % SOUNDING 31FT 10-1/4 IN 10533. BARRELS 1588.75 TONS FO
98.00 % SOUNDING 30 FT 11-3/4 IN 10322. BARRELS 1556.97 TONS FO
TOTAL SOUNDING TUBE LENGTH 46FT 1-5/8 IN
PAGE 79
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GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO.S-29-01-08 GD NO. 30210-03×2 SH 78-85 OF 113 FRAME ① 2 3 4

GENERAL DYNAMICS, QUINCY JAN., 1974 8X

MA NO. S-29-01-08 GD NO. 30210-03x2 SH 86-93 OF 113 FRAME ① 2 3 4

SHIP- ALMERIA LYKES
TANK NO- ROLL STABILIZER - FRS 67-70 TANK SOUNDING TABLE MARAD DWG NO- S-29-01-08
TANK TYPE-
EVEN KEEL

FT	IN	BARRELS	TONS FO		FT	IN	BARRELS	TONS FO		FT	IN	BARRELS	TONS FO	
0	0	11.	1.6		9	0	3074.	454.7		18	0	5855.	865.9	
0	3	15.	2.2		9	3	3176.	469.7		18	3	5924.	876.2	
0	6	19.	2.8		9	6	3278.	484.7		18	6	5993.	886.4	
0	9	23.	3.4		9	9	3380.	499.8		18	9	6063.	896.6	
1	0	27.	4.0		10	0	3482.	515.0		19	0	6132.	906.9	
1	3	31.	4.6		10	3	3585.	530.2		19	3	6201.	917.1	
1	6	92.	13.5		10	6	3687.	545.4		19	6	6270.	927.4	
1	9	189.	27.9		10	9	3790.	560.5		19	9	6340.	937.6	
2	0	286.	42.3		11	0	3893.	575.7		20	0	6409.	947.9	
2	3	384.	56.8		11	3	3988.	589.9		20	3	6478.	958.1	
2	6	481.	71.2		11	6	4058.	600.1		20	6	6547.	968.3	
2	9	579.	85.6		11	9	4127.	610.4		20	9	6617.	978.6	
3	0	676.	100.0		12	0	4196.	620.6		21	0	6686.	988.8	
3	3	773.	114.4		12	3	4266.	630.9		21	3	6755.	999.1	
3	6	871.	128.8		12	6	4335.	641.2		21	6	6824.	1009.3	
3	9	968.	143.2		12	9	4404.	651.4		21	9	6894.	1019.6	
4	0	1065.	157.6		13	0	4474.	661.7		22	0	6963.	1029.8	
4	3	1163.	172.0		13	3	4543.	671.9		22	3	7032.	1040.1	
4	6	1260.	186.4		13	6	4612.	682.2		22	6	7102.	1050.3	
4	9	1358.	200.8		13	9	4682.	692.4		22	9	7171.	1060.6	
5	0	1455.	215.2		14	0	4751.	702.6		23	0	7242.	1071.1	
5	3	1552.	229.6		14	3	4820.	712.8		23	3	7314.	1081.7	
5	6	1650.	244.0		14	6	4889.	723.0		23	6	7385.	1092.3	
5	9	1752.	259.1		14	9	4958.	733.2		23	9	7457.	1102.9	
6	0	1853.	274.1		15	0	5027.	743.4		24	0	7529.	1113.5	
6	3	1955.	289.2		15	3	5096.	753.7		24	3	7601.	1124.1	
6	6	2057.	304.2		15	6	5165.	763.9		24	6	7673.	1134.8	
6	9	2159.	319.2		15	9	5234.	774.1		24	9	7744.	1145.4	
7	0	2260.	334.3		16	0	5303.	784.3		25	0	7816.	1156.0	
7	3	2362.	349.3		16	3	5372.	794.5		25	3	7888.	1166.6	
7	6	2464.	364.4		16	6	5441.	804.7		25	6	7960.	1177.2	
7	9	2565.	379.4		16	9	5510.	814.9		25	9	8031.	1187.8	
8	0	2667.	394.5		17	0	5579.	825.1		26	0	8103.	1198.5	
8	3	2769.	409.5		17	3	5648.	835.3		26	3	8175.	1209.1	
8	6	2871.	424.6		17	6	5717.	845.5		26	6	8247.	1219.7	
8	9	2972.	439.6		17	9	5786.	855.7		26	9	8318.	1230.3	

Q 7024

CONTINUED ON NEXT PAGE

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SHIP- ALMERIA LYKES
TANK NO- ROLL STABILIZER- FRS 67-70 TANK SOUNDING TABLE MARAD DWG NO- S-29-01-08
TANK TYPE-
EVEN KEEL

FT	IN	BARRELS	TONS FO		FT	IN	BARRELS	TONS FO		FT	IN	BARRELS	TONS FO	
27	C	8390.	1240.9											
27	3	8462.	1251.5											
27	6	8533.	1262.1											
27	9	8605.	1272.7											
28	0	8677.	1283.3											
28	3	8748.	1293.9											
28	6	8790.	1300.1											

Q 7024

100 % SOUNDING 28FT 6-3/8 IN 8796. BARRELS 1300.92 TONS FO
98.00 % SOUNDING 27 FT 9-3/4 IN 8620. BARRELS 1274.90 TONS FO
TOTAL SOUNDING TUBE LENGTH 42FT 1-5/8 IN

98

SHIP- ALMERIA LYKES
TANK NO- FRS 70-75 (S) TANK SOUNDING TABLE MARAD DWG NO- S-29-01-08
TANK TYPE- RESERVE FDW STBD
EVEN KEEL

FT	IN	TONS FW	GALS		FT	IN	TONS FW	GALS		FT	IN	TONS FW	GALS	
0	0	1.3	351.8		3	0	66.6	17950.7						
0	1	3.1	840.7		3	1	68.4	18439.6						
0	2	4.9	1329.5		3	2	70.2	18928.4						
0	3	6.7	1818.4		3	3	72.0	19417.3						
0	4	8.6	2307.3		3	4	73.9	19906.1						
0	5	10.4	2796.1		3	5	75.7	20395.0						
0	6	12.2	3285.0		3	6	77.5	20883.9						
0	7	14.0	3773.8		3	7	79.3	21372.7						
0	8	15.8	4262.7		3	8	81.1	21861.6						
0	9	17.6	4751.5		3	9	82.9	22350.4						
0	10	19.4	5240.4		3	10	84.7	22839.3						
0	11	21.3	5729.3		3	11	86.5	23328.1						
1	0	23.1	6218.1		4	0	88.4	23817.0						
1	1	24.9	6707.0		4	1	90.2	24305.9						
1	2	26.7	7195.8		4	2	92.0	24794.7						
1	3	28.5	7684.7		4	3	93.8	25283.6						
1	4	30.3	8173.6		4	4	95.6	25772.4						
1	5	32.1	8662.4		4	5	97.4	26261.3						
1	6	34.0	9151.3		4	6	99.2	26750.2						
1	7	35.8	9640.1		4	7	101.1	27239.0						
1	8	37.6	10129.0		4	8	102.9	27727.9						
1	9	39.4	10617.8		4	9	104.7	28216.7						
1	10	41.2	11106.7		4	10	106.5	28705.6						
1	11	43.0	11595.6		4	11	108.3	29194.4						
2	0	44.8	12084.4		5	0	110.1	29683.3						
2	1	46.6	12573.3		5	1	111.9	30172.2						
2	2	48.5	13062.1		5	2	113.8	30661.0						
2	3	50.3	13551.0		5	3	115.6	31149.9						
2	4	52.1	14039.8		5	4	117.4	31638.7						
2	5	53.9	14528.7		5	5	119.2	32127.6						
2	6	55.7	15017.6		5	6	121.0	32616.5						
2	7	57.5	15506.4		5	7	122.8	33105.3						
2	8	59.3	15995.3		5	8	124.6	33594.2						
2	9	61.2	16484.1		5	9	126.4	34083.0						
2	10	63.0	16973.0		5	10	128.3	34571.9						
2	11	64.8	17461.9		5	11	130.1	35060.7						

Q 7024

100 % SOUNDING 5FT 11-1/4 IN 130.5 TONS FW 35183.00 GALS

TOTAL SOUNDING TUBE LENGTH 12FT 8 IN

99

SHIP- ALMERIA LYKES
TANK NO- FRS 70-75 (P) TANK SOUNDING TABLE MARAD DWG NO- S-29-01-08
TANK TYPE- RESERVE FDW PORT
EVEN KEEL

FT	IN	TONS FW	GALS		FT	IN	TONS FW	GALS		FT	IN	TONS FW	GALS	
0	0	1.3	351.8		3	0	66.6	17950.7						
0	1	3.1	840.7		3	1	68.4	18439.6						
0	2	4.9	1329.5		3	2	70.2	18928.4						
0	3	6.7	1818.4		3	3	72.0	19417.3						
0	4	8.6	2307.3		3	4	73.9	19906.1						
0	5	10.4	2796.1		3	5	75.7	20395.0						
0	6	12.2	3285.0		3	6	77.5	20883.9						
0	7	14.0	3773.8		3	7	79.3	21372.7						
0	8	15.8	4262.7		3	8	81.1	21861.6						
0	9	17.6	4751.5		3	9	82.9	22350.4						
0	10	19.4	5240.4		3	10	84.7	22839.3						
0	11	21.3	5729.3		3	11	86.5	23328.1						
1	0	23.1	6218.1		4	0	88.4	23817.0						
1	1	24.9	6707.0		4	1	90.2	24305.9						
1	2	26.7	7195.8		4	2	92.0	24794.7						
1	3	28.5	7684.7		4	3	93.8	25283.6						
1	4	30.3	8173.6		4	4	95.6	25772.4						
1	5	32.1	8662.4		4	5	97.4	26261.3						
1	6	34.0	9151.3		4	6	99.2	26750.2						
1	7	35.8	9640.1		4	7	101.1	27239.0						
1	8	37.6	10129.0		4	8	102.9	27727.9						
1	9	39.4	10617.8		4	9	104.7	28216.7						
1	10	41.2	11106.7		4	10	106.5	28705.6						
1	11	43.0	11595.6		4	11	108.3	29194.4						
2	0	44.8	12084.4		5	0	110.1	29683.3						
2	1	46.6	12573.3		5	1	111.9	30172.2						
2	2	48.5	13062.1		5	2	113.8	30661.0						
2	3	50.3	13551.0		5	3	115.6	31149.9						
2	4	52.1	14039.8		5	4	117.4	31638.7						
2	5	53.9	14528.7		5	5	119.2	32127.6						
2	6	55.7	15017.6		5	6	121.0	32616.5						
2	7	57.5	15506.4		5	7	122.8	33105.3						
2	8	59.3	15995.3		5	8	124.6	33594.2						
2	9	61.2	16484.1		5	9	126.4	34083.0						
2	10	63.0	16973.0		5	10	128.3	34571.9						
2	11	64.8	17461.9		5	11	130.1	35060.7						

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100 % SOUNDING 5FT 11-1/4 IN 130.5 TONS FW 35183.00 GALS

TOTAL SOUNDING TUBE LENGTH 14FT 3-1/2 IN

100

SHIP- ALMERIA LYKES
TANK NO- FRS 80-82 (P) TANK SOUNDING TABLE MARAD DWG NO- S-29-01-08
TANK TYPE- DISTILLED WATER
EVEN KEEL

FT	IN	TONS FW	GALLONS	Petcock	FT	IN	TONS FW	GALLONS	Petcock	FT	IN	TONS FW	GALLONS	
0	0	4.7	1263.5	1	16	0	55.4	14923.0	33					
0	6	6.3	1690.3	2	16	6	56.9	15349.9	34					
1	0	7.9	2117.2	3	17	0	58.5	15776.7	35					
1	6	9.4	2544.1	4	17	6	60.1	16203.6	36					
2	0	11.0	2970.9	5	18	0	61.7	16630.4	37					
2	6	12.6	3397.8	6	18	6	63.3	17057.3	38					
3	0	14.2	3824.6	7										
3	6	15.8	4251.5	8										
4	0	17.4	4678.4	9										
4	6	18.9	5105.2	10										
5	0	20.5	5532.1	11										
5	6	22.1	5958.9	12										
6	0	23.7	6385.8	13										
6	6	25.3	6812.7	14										
7	0	26.9	7239.5	15										
7	6	28.4	7666.4	16										
8	0	30.0	8093.2	17										
8	6	31.6	8520.1	18										
9	0	33.2	8947.0	19										
9	6	34.8	9373.8	20										
10	0	36.4	9800.7	21										
10	6	37.9	10227.5	22										
11	0	39.5	10654.4	23										
11	6	41.1	11081.3	24										
12	0	42.7	11508.1	25										
12	6	44.3	11935.0	26										
13	0	45.9	12361.8	27										
13	6	47.4	12788.7	28										
14	0	49.0	13215.6	29										
14	6	50.6	13642.4	30										
15	0	52.2	14069.3	31										
15	6	53.8	14496.1	32										

MAXIMUM SNDG OF 18 FT 6 IN IS AT THE TOP PETCOCK (NO. 38)
ZERO SNDG (0 FT 0 IN) IS AT THE BOTTOM PETCOCK (NO. 1)

Q 7024

100 % SOUNDING 68.3 TONS FW 18406.00 GALLONS

TOTAL SOUNDING TUBE LENGTH

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SHIP- ALMERIA LYKES
TANK NO- 3-C.L. FRS 40-46 TANK ULLAGE TABLE MARAD DWG NO- S-29-01-08
TANK TYPE- F.O. STORAGE
EVEN KEEL ULLAGES TAKEN AT SOUNDING TUBE

100 % ULLAGE 14FT 5-1/2 IN 9504. BARRELS 1433.56 TONS FO

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
14	0			11.0 BBL	23	0	6709.	1012.0	11.0 BBL	32	0	3697.	557.6	11.0 BBL
14	3				23	3	6625.	999.4		32	3	3613.	545.0	
14	6	9488.	1431.1	1.7 TON	23	6	6542.	986.7	1.7 TON	32	6	3530.	532.4	1.7 TON
14	9	9446.	1424.8		23	9	6458.	974.1		32	9	3446.	519.8	
15	0	9386.	1415.9	11.0 BBL	24	0	6374.	961.5	11.0 BBL	33	0	3362.	507.2	11.0 BBL
15	3	9303.	1403.2		24	3	6291.	948.9		33	3	3279.	494.5	
15	6	9219.	1390.6	1.7 TON	24	6	6207.	936.3	1.7 TON	33	6	3195.	481.9	1.7 TON
15	9	9135.	1378.0		24	9	6123.	923.6		33	9	3111.	469.3	
16	0	9052.	1365.4	11.0 BBL	25	0	6040.	911.0	11.0 BBL	34	0	3028.	456.7	11.0 BBL
16	3	8968.	1352.8		25	3	5956.	898.4		34	3	2944.	444.1	
16	6	8884.	1340.1	1.7 TON	25	6	5872.	885.8	1.7 TON	34	6	2860.	431.4	1.7 TON
16	9	8801.	1327.5		25	9	5789.	873.2		34	9	2777.	418.8	
17	0	8717.	1314.9	11.0 BBL	26	0	5705.	860.5	11.0 BBL	35	0	2693.	406.2	11.0 BBL
17	3	8633.	1302.3		26	3	5621.	847.9		35	3	2609.	393.6	
17	6	8550.	1289.6	1.7 TON	26	6	5538.	835.3	1.7 TON	35	6	2526.	381.0	1.7 TON
17	9	8466.	1277.0		26	9	5454.	822.7		35	9	2442.	368.3	
18	0	8382.	1264.4	11.0 BBL	27	0	5370.	810.1	11.0 BBL	36	0	2358.	355.7	11.0 BBL
18	3	8299.	1251.8		27	3	5287.	797.4		36	3	2275.	343.1	
18	6	8215.	1239.2	1.7 TON	27	6	5203.	784.8	1.7 TON	36	6	2191.	330.5	1.7 TON
18	9	8131.	1226.5		27	9	5119.	772.2		36	9	2107.	317.8	
19	0	8048.	1213.9	11.0 BBL	28	0	5036.	759.6	11.0 BBL	37	0	2013.	303.6	11.0 BBL
19	3	7964.	1201.3		28	3	4952.	747.0		37	3	1921.	289.7	
19	6	7880.	1188.7	1.7 TON	28	6	4868.	734.3	1.7 TON	37	6	1830.	276.1	1.7 TON
19	9	7797.	1176.1		28	9	4785.	721.7		37	9	1742.	262.8	
20	0	7713.	1163.4	11.0 BBL	29	0	4701.	709.1	11.0 BBL	38	0	1656.	249.7	10.8 BBL
20	3	7629.	1150.8		29	3	4617.	696.5		38	3	1571.	237.0	
20	6	7546.	1138.2	1.7 TON	29	6	4534.	683.9	1.7 TON	38	6	1488.	224.5	1.6 TON
20	9	7462.	1125.6		29	9	4450.	671.2		38	9	1407.	212.3	
21	0	7378.	1113.0	11.0 BBL	30	0	4366.	658.6	11.0 BBL	39	0	1328.	200.3	10.4 BBL
21	3	7295.	1100.3		30	3	4283.	646.0		39	3	1251.	188.7	
21	6	7211.	1087.7	1.7 TON	30	6	4199.	633.4	1.7 TON	39	6	1175.	177.3	1.6 TON
21	9	7127.	1075.1		30	9	4115.	620.7		39	9	1102.	166.2	
22	0	7044.	1062.5	11.0 BBL	31	0	4032.	608.1	11.0 BBL	40	0	1030.	155.4	9.8 BBL
22	3	6960.	1049.9		31	3	3948.	595.5		40	3	960.	144.9	
22	6	6876.	1037.2	1.7 TON	31	6	3864.	582.9	1.7 TON	40	6	892.	134.6	1.5 TON
22	9	6793.	1024.6		31	9	3781.	570.3		40	9	826.	124.6	

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SHIP- ALMERIA LYKES
TANK NO- 3-C.L. FRS 40-46 TANK ULLAGE TABLE MARAD DWG NO- S-29-01-08
TANK TYPE- F.O. STORAGE
EVEN KEEL ULLAGES TAKEN AT SOUNDING TUBE

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
41	0	762.	114.9	9.0 BBL										
41	3	700.	105.5											
41	6	639.	96.4	1.4 TON										
41	9	580.	87.5											
42	0	523.	79.0	8.0 BBL										
42	3	468.	70.7											
42	6	415.	62.6	1.2 TON										
42	9	364.	54.9											
43	0	315.	47.5	6.5 BBL										
43	3	267.	40.3											
43	6	221.	33.4	1.0 TON										
43	9	177.	26.8											
44	0	135.	20.4	3.1 BBL										
44	3	95.	14.4											
44	6	57.	8.6	.5 TON										
44	9	20.	3.1											

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TOTAL SOUNDING TUBE LENGTH 44FT 10-5/8 IN

103

SHIP- ALMERIA LYKES
TANK NO- 4-C.L. FRS 46-52 TANK ULLAGE TABLE MARAD DWG NO- S-29-01-08
TANK TYPE- F.O. STORAGE
EVEN KEEL ULLAGES TAKEN AT SOUNDING TUBE

100 % ULLAGE 15FT 6-3/4 IN 10136. BARRELS 1528.96 TONS FO

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
15	0			11.0 BBL	24	0	7387.	1114.2	11.0 BBL	33	0	4372.	659.5	11.0 BBL
15	3				24	3	7303.	1101.6		33	3	4289.	646.9	
15	6	10136.	1529.0	1.7 TON	24	6	7219.	1089.0	1.7 TON	33	6	4205.	634.3	1.7 TON
15	9	10103.	1524.0		24	9	7136.	1076.4		33	9	4121.	621.6	
16	0	10061.	1517.6	11.0 BBL	25	0	7052.	1063.7	11.0 BBL	34	0	4037.	609.0	11.0 BBL
16	3	9983.	1505.8		25	3	6968.	1051.1		34	3	3954.	596.4	
16	6	9899.	1493.2	1.7 TON	25	6	6884.	1038.5	1.7 TON	34	6	3870.	583.7	1.7 TON
16	9	9815.	1480.5		25	9	6801.	1025.8		34	9	3786.	571.1	
17	0	9732.	1467.9	11.0 BBL	26	0	6717.	1013.2	11.0 BBL	35	0	3702.	558.5	11.0 BBL
17	3	9648.	1455.3		26	3	6633.	1000.6		35	3	3619.	545.9	
17	6	9564.	1442.6	1.7 TON	26	6	6550.	987.9	1.7 TON	35	6	3535.	533.2	1.7 TON
17	9	9480.	1430.0		26	9	6466.	975.3		35	9	3451.	520.6	
18	0	9397.	1417.4	11.0 BBL	27	0	6382.	962.7	11.0 BBL	36	0	3368.	508.0	11.0 BBL
18	3	9313.	1404.8		27	3	6298.	950.0		36	3	3284.	495.3	
18	6	9229.	1392.1	1.7 TON	27	6	6215.	937.4	1.7 TON	36	6	3200.	482.7	1.7 TON
18	9	9145.	1379.5		27	9	6131.	924.8		36	9	3116.	470.1	
19	0	9062.	1366.9	11.0 BBL	28	0	6047.	912.1	11.0 BBL	37	0	3033.	457.4	11.0 BBL
19	3	8978.	1354.2		28	3	5963.	899.5		37	3	2949.	444.8	
19	6	8894.	1341.6	1.7 TON	28	6	5880.	886.9	1.7 TON	37	6	2865.	432.2	1.7 TON
19	9	8810.	1329.0		28	9	5796.	874.3		37	9	2781.	419.5	
20	0	8727.	1316.3	11.0 BBL	29	0	5712.	861.6	11.C BBL	38	0	2698.	406.9	11.0 BBL
20	3	8643.	1303.7		29	3	5628.	849.0		38	3	2614.	394.3	
20	6	8559.	1291.1	1.7 TON	29	6	5545.	836.4	1.7 TON	38	6	2530.	381.6	1.7 TON
20	9	8475.	1278.4		29	9	5461.	823.7		38	9	2446.	369.0	
21	0	8392.	1265.8	11.0 BBL	30	0	5377.	811.1	11.0 BBL	39	0	2363.	356.4	11.0 BBL
21	3	8308.	1253.2		30	3	5293.	798.5		39	3	2279.	343.8	
21	6	8224.	1240.6	1.7 TON	30	6	5210.	785.8	1.7 TON	39	6	2195.	331.1	1.7 TON
21	9	8141.	1227.9		30	9	5126.	773.2		39	9	2111.	318.5	
22	0	8057.	1215.3	11.0 BBL	31	0	5042.	760.6	11.0 BBL	40	0	2028.	305.9	11.0 BBL
22	3	7973.	1202.7		31	3	4959.	747.9		40	3	1944.	293.2	
22	6	7889.	1190.0	1.7 TON	31	6	4875.	735.3	1.7 TON	40	6	1860.	280.6	1.7 TON
22	9	7806.	1177.4		31	9	4791.	722.7		40	9	1777.	268.0	
23	0	7722.	1164.8	11.0 BBL	32	0	4707.	710.1	11.0 BBL	41	0	1693.	255.3	11.0 BBL
23	3	7638.	1152.1		32	3	4624.	697.4		41	3	1609.	242.7	
23	6	7554.	1139.5	1.7 TON	32	6	4540.	684.8	1.7 TON	41	6	1525.	230.1	1.7 TON
23	9	7471.	1126.9		32	9	4456.	672.2		41	9	1442.	217.4	

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GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO. 5-29-01-08 **GD NO.** 30210-03x2 SH 94-101 OF 113 **FRAME** ① 2 3 4

SHIP- ALMERIA LYKES
TANK NO- 4-C.L. FRS 46-52
TANK TYPE- F.O. STORAGE

TANK ULLAGE TABLE MARAD DWG NO- S-29-01-08
EVEN KEEL ULLAGES TAKEN AT SOUNDING TUBE

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
42	0	1358.	204.8	11.0 BBL										
42	3	1274.	192.2											
42	6	1190.	179.6	1.7 TON										
42	9	1107.	166.9											
43	0	1023.	154.3	11.0 BBL										
43	3	939.	141.7											
43	6	863.	130.2	1.7 TON										
43	9	791.	119.3											
44	0	719.	108.4	10.8 BBL										
44	3	646.	97.5											
44	6	574.	86.6	1.6 TON										
44	9	502.	75.7											
45	0	429.	64.8	7.8 BBL										
45	3	357.	53.8											
45	6	285.	42.9	1.2 TON										
45	9	212.	32.0											
46	0	140.	21.1	2.5 BBL										
46	3	68.	10.2											

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TOTAL SOUNDING TUBE LENGTH 46 FT 4-1/8 IN

SHIP- ALMERIA LYKES
TANK NO- 5-C.L. FRS 52-58
TANK TYPE- F.O. STORAGE

TANK ULLAGE TABLE MARAD DWG NO- S-29-01-08
EVEN KEEL ULLAGES TAKEN AT SOUNDING TUBE

100 % ULLAGE 14FT 1-7/8 IN 10390. BARRELS 1567.28 TONS FO

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
14	0			11.0 BBL	23	0	7508.	1132.5	11.0 BBL	32	0	4507.	679.9	11.0 BBL
14	3	10367.	1563.7		23	3	7424.	1119.9		32	3	4424.	667.3	
14	6	10325.	1557.4	1.7 TON	23	6	7341.	1107.3	1.7 TON	32	6	4341.	654.7	1.7 TON
14	9	10258.	1547.3		23	9	7258.	1094.7		32	9	4257.	642.2	
15	0	10175.	1534.8	11.0 BBL	24	0	7174.	1082.2	11.0 BBL	33	0	4174.	629.6	11.0 BBL
15	3	10091.	1522.2		24	3	7091.	1069.6		33	3	4091.	617.0	
15	6	10008.	1509.6	1.7 TON	24	6	7008.	1057.0	1.7 TON	33	6	4007.	604.5	1.7 TON
15	9	9925.	1497.0		24	9	6924.	1044.5		33	9	3924.	591.9	
16	0	9841.	1484.5	11.0 BBL	25	0	6841.	1031.9	11.0 BBL	34	0	3841.	579.3	11.0 BBL
16	3	9758.	1471.9		25	3	6758.	1019.3		34	3	3757.	566.7	
16	6	9675.	1459.3	1.7 TON	25	6	6674.	1006.7	1.7 TON	34	6	3674.	554.2	1.7 TON
16	9	9591.	1446.8		25	9	6591.	994.2		34	9	3591.	541.6	
17	0	9508.	1434.2	11.0 BBL	26	0	6508.	981.6	11.0 BBL	35	0	3507.	529.0	11.0 BBL
17	3	9425.	1421.6		26	3	6424.	969.0		35	3	3424.	516.5	
17	6	9341.	1409.0	1.7 TON	26	6	6341.	956.5	1.7 TON	35	6	3340.	503.9	1.7 TON
17	9	9258.	1396.5		26	9	6258.	943.9		35	9	3257.	491.3	
18	0	9175.	1383.9	11.0 BBL	27	0	6174.	931.3	11.0 BBL	36	0	3174.	478.7	11.0 BBL
18	3	9091.	1371.3		27	3	6091.	918.7		36	3	3090.	466.2	
18	6	9008.	1358.8	1.7 TON	27	6	6007.	906.2	1.7 TON	36	6	3007.	453.6	1.7 TON
18	9	8925.	1346.2		27	9	5924.	893.6		36	9	2924.	441.0	
19	0	8841.	1333.6	11.0 BBL	28	0	5841.	881.0	11.0 BBL	37	0	2840.	428.5	11.0 BBL
19	3	8758.	1321.0		28	3	5757.	868.5		37	3	2757.	415.9	
19	6	8675.	1308.5	1.7 TON	28	6	5674.	855.9	1.7 TON	37	6	2674.	403.3	1.7 TON
19	9	8591.	1295.9		28	9	5591.	843.3		37	9	2590.	390.7	
20	0	8508.	1283.3	11.0 BBL	29	0	5507.	830.7	11.0 BBL	38	0	2507.	378.2	11.0 BBL
20	3	8424.	1270.8		29	3	5424.	818.2		38	3	2424.	365.6	
20	6	8341.	1258.2	1.7 TON	29	6	5341.	805.6	1.7 TON	38	6	2340.	353.0	1.7 TON
20	9	8258.	1245.6		29	9	5257.	793.0		38	9	2257.	340.4	
21	0	8174.	1233.0	11.0 BBL	30	0	5174.	780.5	11.0 BBL	39	0	2174.	327.9	11.0 BBL
21	3	8091.	1220.5		30	3	5091.	767.9		39	3	2090.	315.3	
21	6	8008.	1207.9	1.7 TON	30	6	5007.	755.3	1.7 TON	39	6	2007.	302.7	1.7 TON
21	9	7924.	1195.3		30	9	4924.	742.7		39	9	1924.	290.2	
22	0	7841.	1182.7	11.0 BBL	31	0	4841.	730.2	11.0 BBL	40	0	1840.	277.6	11.0 BBL
22	3	7758.	1170.2		31	3	4757.	717.6		40	3	1757.	265.0	
22	6	7674.	1157.6	1.7 TON	31	6	4674.	705.0	1.7 TON	40	6	1674.	252.4	1.7 TON
22	9	7591.	1145.0		31	9	4591.	692.5		40	9	1590.	239.9	

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CONTINUED ON NEXT PAGE

SHIP- ALMERIA LYKES
TANK NO- 5-C.L. FRS 52-58
TANK TYPE- F.O. STORAGE

TANK ULLAGE TABLE MARAD DWG NO- S-29-01-08
EVEN KEEL ULLAGES TAKEN AT SOUNDING TUBE

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
41	0	1507.	227.3	11.4 BBL										
41	3	1424.	214.7											
41	6	1340.	202.2	1.7 TON										
41	9	1257.	189.6											
42	0	1174.	177.0	11.4 BBL										
42	3	1090.	164.4											
42	6	1007.	151.9	1.7 TON										
42	9	924.	139.3											
43	0	840.	126.7	11.4 BBL										
43	3	757.	114.2											
43	6	673.	101.6	1.7 TON										
43	9	590.	89.0											
44	0	507.	76.4	11.4 BBL										
44	3	423.	63.9											
44	6	340.	51.3	1.7 TON										
44	9	257.	38.7											
45	0	173.	26.2	11.4 BBL										
45	3	90.	13.6											

Q 7024

TOTAL SOUNDING TUBE LENGTH 45FT 5-1/2 IN

SHIP- ALMERIA LYKES
TANK NO- 6-C.L. FRS 58-64
TANK TYPE- F.O. SETTLER

TANK ULLAGE TABLE MARAD DWG NO- S-29-01-08
EVEN KEEL ULLAGES TAKEN AT SOUNDING TUBE

100 % ULLAGE 14FT 3-3/8 IN 10533. BARRELS 1588.74 TONS FO

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
14	0			11.0 BBL	23	0	7694.	1160.6	11.0 BBL	32	0	4700.	708.9	11.0 BBL
14	3	10528.	1588.1		23	3	7611.	1148.0		32	3	4617.	696.4	
14	6	10486.	1581.8	1.7 TON	23	6	7528.	1135.5	1.7 TON	32	6	4534.	683.9	1.7 TON
14	9	10439.	1574.6		23	9	7445.	1122.9		32	9	4451.	671.3	
15	0	10355.	1562.0	11.0 BBL	24	0	7361.	1110.4	11.0 BBL	33	0	4367.	658.8	11.0 BBL
15	3	10272.	1549.5		24	3	7278.	1097.8		33	3	4284.	646.2	
15	6	10189.	1536.9	1.7 TON	24	6	7195.	1085.3	1.7 TON	33	6	4201.	633.7	1.7 TON
15	9	10106.	1524.4		24	9	7112.	1072.8		33	9	4118.	621.1	
16	0	10023.	1511.8	11.0 BBL	25	0	7029.	1060.2	11.0 BBL	34	0	4035.	608.6	11.0 BBL
16	3	9940.	1499.3		25	3	6946.	1047.7		34	3	3951.	596.0	
16	6	9856.	1486.7	1.7 TON	25	6	6862.	1035.1	1.7 TON	34	6	3868.	583.5	1.7 TON
16	9	9773.	1474.2		25	9	6779.	1022.6		34	9	3785.	571.0	
17	0	9690.	1461.7	11.0 BBL	26	0	6696.	1010.0	11.0 BBL	35	0	3702.	558.4	11.0 BBL
17	3	9607.	1449.1		26	3	6613.	997.5		35	3	3619.	545.9	
17	6	9524.	1436.6	1.7 TON	26	6	6530.	984.9	1.7 TON	35	6	3536.	533.3	1.7 TON
17	9	9441.	1424.0		26	9	6447.	972.4		35	9	3452.	520.8	
18	0	9357.	1411.5	11.0 BBL	27	0	6363.	959.9	11.0 BBL	36	0	3369.	508.2	11.0 BBL
18	3	9274.	1398.9		27	3	6280.	947.3		36	3	3286.	495.7	
18	6	9191.	1386.4	1.7 TON	27	6	6197.	934.8	1.7 TON	36	6	3203.	483.1	1.7 TON
18	9	9108.	1373.8		27	9	6114.	922.2		36	9	3120.	470.6	
19	0	9025.	1361.3	11.0 BBL	28	0	6031.	909.7	11.0 BBL	37	0	3037.	458.0	11.0 BBL
19	3	8942.	1348.8		28	3	5948.	897.1		37	3	2953.	445.5	
19	6	8858.	1336.2	1.7 TON	28	6	5864.	884.6	1.7 TON	37	6	2870.	433.0	1.7 TON
19	9	8775.	1323.7		28	9	5781.	872.0		37	9	2787.	420.4	
20	0	8692.	1311.1	11.0 BBL	29	0	5698.	859.5	11.0 BBL	38	0	2704.	407.9	11.0 BBL
20	3	8609.	1298.6		29	3	5615.	846.9		38	3	2621.	395.3	
20	6	8526.	1286.0	1.7 TON	29	6	5532.	834.4	1.7 TON	38	6	2538.	382.8	1.7 TON
20	9	8443.	1273.5		29	9	5449.	821.9		38	9	2454.	370.2	
21	0	8359.	1260.9	11.0 BBL	30	0	5365.	809.3	11.0 BBL	39	0	2371.	357.7	11.0 BBL
21	3	8276.	1248.4		30	3	5282.	796.8		39	3	2288.	345.1	
21	6	8193.	1235.8	1.7 TON	30	6	5199.	784.2	1.7 TON	39	6	2205.	332.6	1.7 TON
21	9	8110.	1223.3		30	9	5116.	771.7		39	9	2122.	320.1	
22	0	8027.	1210.8	11.0 BBL	31	0	5033.	759.1	11.0 BBL	40	0	2039.	307.5	11.0 BBL
22	3	7944.	1198.2		31	3	4950.	746.6		40	3	1955.	295.0	
22	6	7860.	1185.7	1.7 TON	31	6	4866.	734.0	1.7 TON	40	6	1872.	282.4	1.7 TON
22	9	7777.	1173.1		31	9	4783.	721.5		40	9	1789.	269.9	

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CONTINUED ON NEXT PAGE

SHIP- ALMERIA LYKES
TANK NO- 6-C.L. FRS 58-64
TANK TYPE- F.O. SETTLER

TANK ULLAGE TABLE MARAD DWG NO- S-29-01-08
EVEN KEEL ULLAGES TAKEN AT SOUNDING TUBE

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
41	0	1706.	257.3	11.4 BBL										
41	3	1623.	244.8											
41	6	1540.	232.2	1.7 TON										
41	9	1456.	219.7											
42	0	1373.	207.1	11.4 BBL										
42	3	1290.	194.6											
42	6	1207.	182.1	1.7 TON										
42	9	1124.	169.5											
43	0	1041.	157.0	11.4 BBL										
43	3	957.	144.4											
43	6	874.	131.9	1.7 TON										
43	9	791.	119.3											
44	0	708.	106.8	11.4 BBL										
44	3	625.	94.2											
44	6	542.	81.7	1.7 TON										
44	9	458.	69.1											
45	0	375.	56.6	11.4 BBL										
45	3	292.	44.1											
45	6	209.	31.5	1.7 TON										
45	9	126.	19.0											
46	0	43.	6.4	3.3 BBL										

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TOTAL SOUNDING TUBE LENGTH 46FT 1-5/8 IN

SHIP- ALMERIA LYKES
TANK NO- ROLL STABILIZER- FRS 67-70
TANK TYPE-

TANK ULLAGE TABLE MARAD DWG NO- S-29-01-08
EVEN KEEL ULLAGES TAKEN AT SOUNDING TUBE

100 % ULLAGE 13FT 7-1/4 IN 8796. BARRELS 1300.92 TONS FO

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
13	0				22	0	6432.	951.3		31	0	3927.	580.8	
13	3				22	3	6363.	941.0		31	3	3824.	565.6	
13	6				22	6	6293.	930.8		31	6	3722.	550.4	
13	9	8766.	1296.5		22	9	6224.	920.5		31	9	3619.	535.2	
14	0	8701.	1286.8	4.1 BBL	23	0	6155.	910.3	4.1 BBL	32	0	3516.	520.1	6.0 BBL
14	3	8629.	1276.2		23	3	6086.	900.1		32	3	3414.	504.9	
14	6	8557.	1265.6	.6 TON	23	6	6016.	889.8	.6 TON	32	6	3311.	489.8	.9 TON
14	9	8486.	1255.0		23	9	5947.	879.6		32	9	3210.	474.7	
15	0	8414.	1244.4	4.1 BBL	24	0	5878.	869.3	4.1 BBL	33	0	3108.	459.7	6.0 BBL
15	3	8342.	1233.8		24	3	5809.	859.1		33	3	3006.	444.6	
15	6	8270.	1223.2	.6 TON	24	6	5740.	848.9	.6 TON	33	6	2905.	429.6	.9 TON
15	9	8199.	1212.6		24	9	5671.	838.7		33	9	2803.	414.5	
16	0	8127.	1202.0	4.1 BBL	25	0	5602.	828.5	4.1 BBL	34	0	2701.	399.5	6.0 BBL
16	3	8055.	1191.4		25	3	5533.	818.3		34	3	2599.	384.4	
16	6	7984.	1180.8	.6 TON	25	6	5464.	808.1	.6 TON	34	6	2498.	369.4	.9 TON
16	9	7912.	1170.1		25	9	5395.	797.9		34	9	2396.	354.4	
17	0	7840.	1159.5	4.1 BBL	26	0	5326.	787.7	4.1 BBL	35	0	2294.	339.3	6.0 BBL
17	3	7768.	1148.9		26	3	5257.	777.5		35	3	2192.	324.3	
17	6	7696.	1138.3	.6 TON	26	6	5188.	767.3	.6 TON	35	6	2091.	309.2	.9 TON
17	9	7625.	1127.7		26	9	5119.	757.1		35	9	1989.	294.2	
18	0	7553.	1117.1	4.1 BBL	27	0	5050.	746.9	4.1 BBL	36	0	1887.	279.1	6.0 BBL
18	3	7481.	1106.5		27	3	4981.	736.6		36	3	1786.	264.1	
18	6	7409.	1095.8	.6 TON	27	6	4912.	726.4	.6 TON	36	6	1684.	249.0	.9 TON
18	9	7338.	1085.2		27	9	4843.	716.2		36	9	1585.	234.4	
19	0	7266.	1074.6	4.1 BBL	28	0	4774.	706.0	4.1 BBL	37	0	1488.	220.0	6.0 BBL
19	3	7194.	1064.0		28	3	4705.	695.8		37	3	1390.	205.6	
19	6	7125.	1053.8	.6 TON	28	6	4635.	685.6	.6 TON	37	6	1293.	191.2	.9 TON
19	9	7055.	1043.5		28	9	4566.	675.3		37	9	1195.	176.8	
20	0	6986.	1033.2	4.1 BBL	29	0	4497.	665.1	4.1 BBL	38	0	1098.	162.4	6.0 BBL
20	3	6917.	1023.0		29	3	4428.	654.8		38	3	1001.	148.0	
20	6	6847.	1012.7	.6 TON	29	6	4358.	644.6	.6 TON	38	6	903.	133.6	.9 TON
20	9	6778.	1002.5		29	9	4289.	634.3		38	9	806.	119.2	
21	0	6709.	992.3	4.1 BBL	30	0	4220.	624.1	4.1 BBL	39	0	708.	104.8	6.0 BBL
21	3	6640.	982.0		30	3	4150.	613.8		39	3	611.	90.4	
21	6	6570.	971.8	.6 TON	30	6	4081.	603.6	.6 TON	39	6	514.	76.0	.9 TON
21	9	6501.	961.5		30	9	4012.	593.3		39	9	416.	61.6	

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CONTINUED ON NEXT PAGE

SHIP- ALMERIA LYKES
TANK NO- ROLL STABILIZER- FRS 67-70
TANK TYPE-

TANK ULLAGE TABLE MARAD DWG NO- S-29-01-08
EVEN KEEL ULLAGES TAKEN AT SOUNDING TUBE

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
40	0	319.	47.2	6.0 BBL										
40	3	221.	32.7											
40	6	124.	18.3	.9 TON										
40	9	32.	4.8											
41	0	28.	4.2	.2 BBL										
41	3	24.	3.6											
41	6	20.	3.0	TON										
41	9	16.	2.4											
42	0	12.	1.8	.1 BBL										

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TOTAL SOUNDING TUBE LENGTH 42FT 1-5/8 IN

SHIP- ALMERIA LYKES
TANK NO- FRS 76-81
TANK TYPE- F.O. OVERFLOW

TANK ULLAGE TABLE MARAD DWG NO- S-29-01-08
EVEN KEEL ULLAGES TAKEN AT SOUNDING TUBE

100 % ULLAGE 6FT 5-3/8 IN 906. BARRELS 136.71 TONS FO

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
6	0													
6	3													
6	6	887.	133.8	TON										
6	9	846.	127.7											
7	0	803.	121.1	2.7 BBL										
7	3	757.	114.2											
7	6	709.	106.9	.4 TON										
7	9	660.	99.6											
8	0	613.	92.4	2.6 BBL										
8	3	566.	85.4											
8	6	521.	78.7	.4 TON										
8	9	478.	72.0											
9	0	434.	65.5	2.5 BBL										
9	3	392.	59.1											
9	6	351.	52.9	.4 TON										
9	9	310.	46.8											
10	0	271.	40.8	2.3 BBL										
10	3	231.	34.9											
10	6	194.	29.2	.3 TON										
10	9	158.	23.8											
11	0	124.	18.7	1.9 BBL										
11	3	92.	13.9											
11	6	62.	9.3	.3 TON										
11	9	34.	5.1											
12	0	14.	2.2	.9 BBL										
12	3	3.	0.4											

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TOTAL SOUNDING TUBE LENGTH 12FT 3-7/8 IN

SHIP- ALMERIA LYKES
TANK NO- FRS 76-79
TANK TYPE- F.O. SLUDGE

TANK ULLAGE TABLE MARAD DWG NO- 5-29-01-08
EVEN KEEL ULLAGES TAKEN AT SOUNDING TUBE

100 % ULLAGE 6FT 11-1/4 IN 901. BARRELS 135.95 TONS FO

FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF	FT	IN	BARRELS	TONS FO	TCF
6	0													
6	3													
6	6													
6	9													
7	0	889.	134.1	.1 BBL										
7	3	853.	128.6											
7	6	816.	123.1	TON										
7	9	780.	117.6											
8	0	743.	112.1	.6 BBL										
8	3	707.	106.6											
8	6	670.	101.1	.1 TON										
8	9	634.	95.6											
9	0	597.	90.1	.6 BBL										
9	3	561.	84.6											
9	6	524.	79.1	.1 TON										
9	9	488.	73.6											
10	0	451.	68.1	.6 BBL										
10	3	415.	62.6											
10	6	378.	57.1	.1 TON										
10	9	342.	51.6											
11	0	298.	45.0	.6 BBL										
11	3	252.	38.1											
11	6	208.	31.4	.1 TON										
11	9	167.	25.1											
12	0	127.	19.1	.7 BBL										
12	3	89.	13.4											
12	6	53.	7.9	.1 TON										
12	9	19.	2.8											

Q 7024

TOTAL SOUNDING TUBE LENGTH 12FT 10-1/4 IN

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GENERAL DYNAMICS, QUINCY APRIL., 1974 8X
MA NO. 529-01-10 GD NO. 30210-60x3 SH 96-99 OF 99 FRAME 1234

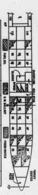
SUMMARY – WTS & CENTERS	22584T CONTAINERS, BARGES & CARGO ARRIVAL 10% CONSUMABLES						
ITEM	LOAD (TONS)	VCG	VERT MOM	LCG	L MOM AFT	L MOM FWD	FREE SURFACE
LIGHT SHIP	18880	43.80		+75.94			–
CREW & EFFECTS	30	72.10		-159.00			–
STORES							
ROLL STABILIZATION FLUID	779	12.58		+47.64			60170
FUEL OIL	255	15.78		-158.70			11553
FRESH WATER AND SEWERAGE	320	20.43		-72.51			3181
SALT WATER BALLAST	6092	15.98		-33.44			22186
BARGES PLUS CARGO	22584	67.70		+53.42			–
TOTALS	48940	50.59		+49.14			97090
		KG		LCG			FREE SURF

TRIM & DRAFTS

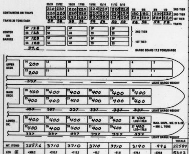
DRAFT AT LCF	35'-0"
MOMENT TO TRIM ONE INCH (MT1)	9047
LONG'L CENTER OF BUOYANCY (LCB)	+41.27
LONG'L CENTER OF GRAVITY (LCG)	+49.14
LONG'L CENTER OF FLOATATION (LCF)	+62.64
TRIMMING LEVER	7.87
TRIM BY STERN	43"
DRAFT AT FWD PERPENDICULAR (FP)	32'-11"
DRAFT AT FWD MARKS	33'-1"
MEAN DRAFT	34'-8"
DRAFT AT AFT MARKS	36'-5"
DRAFT AT AFT PERPENDICULAR (AP)	36'-6"
DRAFT AT CANTILEVER MARKS	37'-0"

STABILITY

METACENTER ABV KEEL (KM)	56.17
CENTER OF GRAVITY ABV KEEL (KG)	50.59
METACENTRIC HEIGHT (KM - KG)	5.58
CORRECTION FOR FREE SURFACE (TOT FR SURF ÷ △)	1.98
CORRECTED METACENTRIC HEIGHT (GM)	3.60
REQUIRED GM ②	3.55


OVERFLOW
ROLL STAB.
*EPOXY COATED
12P
11P
10P
9P
8P
RFW(P)
7P
6P
5P
4P
3P
2P
1P
℄
9℄
8℄
7℄
6℄
5℄
4℄
3℄
2℄
12S
11S
10S
9S
8S
SLUDGE
RFW(S)
7S
6S
5S
4S
3S
2S
FORE PEAK
A/P
F/P
FUEL OIL
S.W. BALLAST
FRESH WATER

	TANK	% CAP.	WT. (TONS)	VCG	VERT. MOM.	LCG	L. MOM AFT (+)	L. MOM FWD (–)	FREE SURFACE
SALT WATER BALLAST	FOREPEAK					-342.27			
	NO. 1 P	52%	300	13.4		-251.86			940
	NO. 1 S	52%	300	13.4		-251.86			940
	NO. 2 ℄	100%	1292	17.1		-206.34			–
	NO. 2 P					-203.69			
	NO. 2 S					-203.79			
	NO. 3 P	25%	200	15.0		-156.87			550
	NO. 3 S	25%	200	15.0		-156.94			550
	NO. 4 P					-108.84			
	NO. 4 S					-108.82			
	NO. 5 P					- 60.70			
	NO. 5 S					- 60.75			
	NO. 6 P	53%	900	12.8		- 12.25			3840
	NO. 6 S	53%	900	12.8		- 12.30			3840
	NO. 7 P	55%	500	12.8		+ 23.88			2120
	NO. 7 S	55%	500	12.8		+ 23.88			2120
	NO. 8 ℄					+190.21			
	NO. 8 P					+181.77			
	NO. 8 S					+181.75			
	NO. 9 ℄					+230.14			
	NO. 9 P					+230.98			
	NO. 9 S					+231.00			
	NO. 10 P	43%	500	25.4		+274.86			3643
	NO. 10 S	43%	500	25.4		+275.07			3643
	NO. 11 P					+323.55			
	NO. 11 S					+323.83			
	NO. 12 P					+420.82			
	NO. 12 S					+420.82			
	TOTALS		6092	15.98		-33.44			22186
FUEL OIL	NO. 3 ℄	18%	255	15.78		-158.70			6399
	NO. 4 ℄					-110.05			
	NO. 5 ℄					- 61.48			
	NO. 6 ℄					- 12.74			
	OVERFLOW P					+128.19			1954
	SLUDGE ℄					+121.10			3200
	TOTALS		255	15.78		-158.70			11553
FR WATER	SEWAGE P&S		250	22.07		-108.94			274
	POT. WATER ℄	10%	37	17.08		+ 23.82			1507
	RES FEED P	↓	13	3.10		+ 80.89			687
	RES FEED S		13	3.10		+ 80.89			687
	DISTILLED P		7	44.15		+140.87			26
	TOTALS		320	20.43		-72.51			3181


CONTAINERS ON TRAYS
TRAYS 20 TONS EACH
23/24
21/22
19/20
17/18
15/16
13/14
11/12
9/10
7/8
5/6
3/4
1/2
220 220 220 220 220 220 220 220
220 220 220 220 220 220 220 220 180 180 220 220
220 220 220 220 220 220 220 220 220 220 220 220
58 58 58 58 58 58 58 58 58 58 58 58
3RD TIER
2ND TIER
1ST TIER
TRAYS
CENTER ON BARGES
6P 128
6S 128
6P 128
6S 128
5P
5S
4P
4S
3P
3S
2P
2S
2ND TIER
1ST TIER
34.6
BARGE BEAMS 17.3 TONS/BARGE
UPPER DECK
14 200
13 200
12
11
10
9
8
7
6
5
4
3
2
1
337
LIGHT BARGE WEIGHT
MAIN DECK
26 400
24 400
22 400
20 400
18 400
16 400
25 400
23 400
21 400
19 400
17 400
15 400
337 337 337 337 337 337
LIGHT BARGE WEIGHT
LOWER DK.
38 400
36 400
34 400
32 400
30 400
28 400 LCG=-178.6
37 400
35 400
33 400
31 400
29 400
27 400 LCG=-178.6
MAX. DISPL. NO. 27 & 28 = 966 L. TONS
337 337 337 337 337 337
LIGHT BARGE WEIGHT

	WT.	VCG	MOM
3RD TIER	1760	101.75	
2ND TIER	2560	92.25	
1ST TIER	2640	83.75	
TRAYS	696	78.15	
2ND TIER	256	107.83	
1ST TIER	256	99.43	
BARGE BEAMS 17.3 TONS/BARGE	34.6	94.97	
UPPER DECK	200	85.25	
	200	85.25	
LIGHT BARGE WEIGHT	337	82.72	
MAIN DECK	2400	64.25	
	2400	64.25	
LIGHT BARGE WEIGHT	2022	61.72	
LOWER DK.	2400	42.76	
	2400	42.76	
LIGHT BARGE WEIGHT	2022	40.22	
TOTALS	22584	67.70	

WT. (TONS)	3557.6	3710	3710	3710	3710	3190	996	22584	WT. VCG
LCG	+308.2	+210.7	+113.2	+15.7	-81.8	-179.1	-276.8	53.42	LCG
L MOM									
POSITION	6	5	4	3	2	1	1A		

CARGO WEIGHTS & CENTERS

LYKES BARGE CARRIER

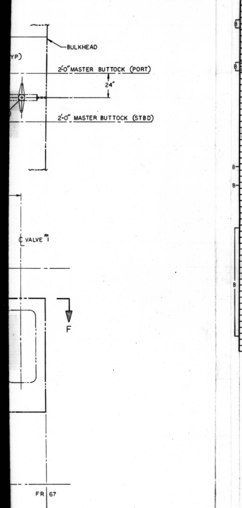
LONGITUDINAL STRENGTH

USE THIS SHEET FOR DISPLACEMENT GREATER THAN 37535 TONS

	ITEM OF LOAD	WT (TONS)/100	FACTORS	NUMERALS +	NUMERALS –
	LT SHIP, CREW & EFFECTS	189.10		105.75	
SALT WATER BALLAST	FOREPEAK TANK		+1.322		
	NO. 1 P&S TANKS	6.00	+ .822	4.93	
	NO. 2 P, ℄ & S	12.92	+ .564	7.29	
	NO. 3 P&S	4.00	+ .297	1.19	
	NO. 4 P&S	2.50	+ .030	.08	
	NO. 5 P&S		- .233		
	NO. 6 P&S	18.00	- .497		8.95
	NO. 7 P&S	10.00	- .698		6.98
	NO. 8 P, ℄ & S		- .334		
	NO. 9 P, ℄ & S		- .036		
	NO. 10 P&S	10.00	+ .255	2.55	
	NO. 11 P&S		+ .570		
	NO. 12 P&S		+1.165		
FUEL OIL	NO. 3 ℄	2.55	+ .306	.78	
	NO. 4 ℄		+ .036		
	NO. 5 ℄		- .230		
	NO. 6 ℄		- .497		
	OVERFLOW P		- .722		
	SLUDGE ℄		- .782		
FR WATER	POT WATER	.37	- .698		.26
	RES FEED P&S	.26	-1.013		.26
	DISTILLED	.07	- .576		.04
	ROLL STAB	7.79	- .837		6.52
BARGES & CARGO	1A POSITION	9.96	+ .958	9.54	
	1	31.90	+ .419	13.37	
	2	37.10	- .121		4.49
	3	37.10	- .657		24.37
	4	37.10	- .815		30.24
	5	37.10	- .176		6.53
	6	35.58	+ .473	16.83	
	TOTAL WT = 48940 L. TONS		NET NUMERAL = 73.67		

MAX ALLOWABLE STRESS NUMERAL = 100

GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO. 241-S29-04-01 GD NO. 30652-50x1 FRAME ① 2 3 4



LIST OF MATERIAL QUANTITIES FOR ONE SHIP

EXCEPT AS OTHERWISE NOTED SPECIFICATIONS ARE THOSE IN EFFECT ON MAY 26 1968

PIECE NO.	QUANTITY INSTL		OBRP	MATL OR VDRS DWG	VENDOR CODE	SPEC	REMARKS	NAME	PATT NO.	SOURCE
1	3							BUTTERFLY VALVE ASSY		
2	3							VALVE WELDMENT		
2-S1	3			STEEL		ASTM-A-53	GR B TY E SCH 80	PIPE, 6.625"OD X .432"W X 66" LG.		9-40-00381
2-S2	3			STL HTNSL		ASTM-A-322	GR 8620	ROD, 6 3/4"DIA X 5 1/2" LG.		9-32-00922
2-S3	3			STL HTNSL		ASTM-A-322	GR 8620	ROD, 6"DIA X 5 3/4" LG.		9-32-00921
2-S4	6			STL HTNSL		ASTM-A-322	GR 8620	ROD, 1 1/2"DIA X 64 1/2" LG.		9-32-00904
2-S5	12			STL HTNSL		ASTM-A-322	GR 8620	ROD, 1 1/2"DIA X 1/2" LG.		9-32-00904
2-S6	12			STEEL		MIL-S-22698	TY I	PLATE, 70 1/2"X12 1/2"X10.2# PL		9-20-01455
2-S7	12			STEEL		MIL-S-22698	TY I	PLATE, 16" X 7" X 10.2# PL		9-20-01455
2-S8	12			STEEL		MIL-S-22698	TY I	PLATE, 5" X 4 3/4" X 10.2# PL		9-20-01455
~~2-S9~~	~~3~~			~~STEEL~~		~~MIL-S-22698~~	~~TY I~~	~~PLATE, 5 3/4"OD X 3 3/4"ID X 7.65# PL~~		~~9-20-01454~~
~~2-S10~~	~~3~~			~~STEEL~~		~~ASTM-A-131~~		~~BAR, FLAT 19" X 1" X 7.65# PL~~		~~9-20-01301~~
3	3							WELDMENT, UPPER BRG		
3-S1	3			STEEL		ASTM-A-53	GR B TY E SCH 80	PIPE, 6.625"OD X .432"W X 8" LG.		9-40-00381
3-S2	3			STEEL		MIL-S-22698	TY I	PLATE, 7" X 6 5/8" X 163.2# PL		9-20-01870
3-S3	6			STEEL		ASTM-A-131		BAR, FLAT 19" X 1" X 7.65# PL		9-30-01301
4	3							WELDMENT, LOWER BRG		
4-S1	3			STEEL		MIL-S-22698	TY I	PLATE, 6" X 6" X 163.3# PL		9-20-01870
4-S2	6			STEEL		MIL-S-22698	TY I	PLATE, 2 3/4" X 2 3/4" X 10.2# PL		9-20-01455
5	3			STEEL		TY LSB	SEE NOTE #7	STUFFING BOX 1 1/4" SIZE		9-77-09004
6	3			FLAX		HH-P-106	CL I	PACKING 1/4" SQ. BRAIDED X 12" LG.		9-54-10922
7	3			STL HTNSL		ASTM-A-322	GR 8620	SHAFT, EXTENSION 2"DIA X 60" LG.		9-32-00908
8	3			BRONZE		COM'L	SEE NOTE #6	BRG, OILITE		9-77-00524
9	3			STEEL		MIL-S-22698	TY I	PLATE, 6 1/2" X 4" X 122.4# PL		9-20-01867
10	3			STEEL		MIL-S-22698	TY I	PLATE, 2 3/4" X 6" X 142.8# PL		9-20-01869
11	24			STEEL		MIL-B-857A	TY III GR 5	BOLT, HEX 5/8-11UNC-2A X 2" LG.		9-60-01730
12	24			STEEL		FF-W-84	CL A STY 2	WASHER, LK 5/8"		9-60-26228
13	6			STEEL		MIL-B-857A	TY III GR 5	BOLT, HEX 5/8-11UNC-2A X 7 3/8" LG(2"THD)	(CUT FROM 9 1/2" LG.)	9-60-01757
14	6			STEEL		MS1782 B-10C	TYPE FX52NE-101	NUT, SELF LKG 5/8"-11UNC-3B		9-60-08469
15	18			BRONZE		ASTM-B-62	THREADED	PLUG, COUNTERSUNK 3/8"		9-15-24021
16	3			NI-CU			BUTTON HEAD	FTG, GREASE 1/8" PTF (ALEMITE M-1184)		9-62-05510
17	3			BRASS		QQ-B-639	NAVAL 1/2" HARD	PLATE, 3 1/2" X 5" X 5/16"		9-25-00537
18	3			BRONZE		COM'L	SEE NOTE #8	BEARING, OILITE		9-77-00532
19	3							WELDMENT, PEDESTAL		
19-S1	3			STEEL		ASTM-A-131	GR A	CHANNEL, 6" X 2" X 13.0# X 40 3/8" LG.		9-20-00471
19-S2	3			STEEL		MIL-S-22698	TY I	PLATE, 7 1/2" X 7 1/2" X 30.6# PL		9-20-01462
19-S3	6			STEEL		MIL-S-22698	TY I	PLATE, 10" X 10" X 10.2# PL		9-20-01455
19-S4	6			STL HTNSL		ASTM-A-322	GR 8620	ROD, 1 5/8"DIA X 3/8" LG.		9-32-00906
20	3			BRONZE		COM'L	SEE NOTE #9	FLANGE BEARING, OILITE		9-77-00237
21	3			STEEL		MIL-S-22698	TY I	PLATE, 1" X 2 1/4" X 20 1/2"		9-20-01467
22	3			CRES		QQ-S-763	CL 304 COND A	ROD, ROUND 1 1/2"DIA X 5 1/2" LG.		9-34-03188
23	3			CRES		QQ-S-763	AISI-316 COND A FIN#1	VALVE LABEL PLATE .050"THK 18 GA.	SEE NOTE #10	9-22-05404
24	3			CRES		QQ-S-763	AISI-316 COND A FIN#1	VALVE LABEL PLATE .050"THK 18 GA.	SEE NOTE #10	9-22-05404
25	12			CRES		QQ-S-763	CL 304 COND H	SCREW, TAP PAN HD #6-32UNC-2A X 3/16" LG.		9-60-13532
26	3			STEEL		MIL-B-857	STY A GR 5	NUT, HEX 5/8"-11UNC-2B		9-60-07783
27	3			STEEL		MIL-S-22698	TY I	PLATE 4 1/4" X 3" X 10.2# PL		9-20-01455

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	B	PLAN REVISED AS DESIGN DEVELOPMENT AS FOLLOWS: 1. ADDED: OPERATOR, PC. 19 THRU 27, GEN NOTES 8, 9, 10 & REF. 4. 2. REVISED: PC. 2-S2, 2-S3, 4-S1, 7, 10, 17, 18 & M.A. DWG. NO. WAS 241-S22-00-18 3. DELETED: PC. 2-S9 & 2-S10. MATERIAL CHANGES: ADDED: PC. NO'S 19 THRU 27. REVISED: PC. 2-S2 WAS 4 1/2", PC. 2-S3 WAS 4 3/4" LG., PC. 7 WAS STL AISI-1018, PC. 10 WAS 5 1/2" X 3" X 112.2# PL, PC. 17 WAS 2" X 2", PC. 18 WAS 2"DIA X 2" LG. RELEASES: ANDC ME-037 & ME-060. W.R. 7-6-0	W.J.C. 7/6/0		NOT	REQ'D	9 JUL 1970	
	A	PLAN APPROVED BY J.J. HENRY LTR NO. 5589/546/[illegible] DATED MARCH 12, 1970. PLAN REVISED AS FOLLOWS TO COMPLY WITH COMMENTS. 1. ADDED: PC. 17 & 18. 2. REVISED: PC. 2-S3, 4-S1 & 10 REVISED AS FOLLOWS TO SUIT DESIGN DEVELOPMENT: 1. WELDED SYMBOLS ON PC. 2, 3 & 4. 2. SIZE OF PC. 4-S2.	W.J.C. 3/20/0	WJ	3/30/70		30 MAR 1970	

REVISIONS	O	A	B	C							
TO	2/23/70	3/30/70	7/10/0								
LYKES	1	1W	1/0								
M.A.(WASH)	1										
M.A.(YARD)	1	1W	1W								
J.J.HENRY(YARD)	1	1W	1W								
J.J.HENRY(HOME)	3	1W	1W								
ABS	3		1W								
USCG	3		1W								
USPHS											
866 TPS		1W	1W								
LIAISON		1W	1W								
J. SINGLETON 872		1W	1W								
MAT'L 872		1W	1W								
871		1W									
872	1	2W	2W								
873											
874		1W	1W								
875											
876		1W	1W								
J. MUIR 871		1W	1W								
M.A.C. 855		1W	1W								
TOTAL NRO'S FS	14	15	16								
TOTAL NRO'S HS											
TOTAL RO											

SHOP ORDER	REV	DATE
30212	A	4-4-0
30212	B	7-13-0

DEPT	QTY FS	QTY HS
800		6
820		3
826		12
829		
830		
841		
842		4
843		4
844		
899		
LIBRARY		5
855		1
825		1
840		1
[illegible]		
DRUCKER 814		1
TOTAL		38

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G
[illegible]	MH/SM 3/30/70	HR 7/17/70					

GENERAL NOTES

1. THE FOLLOWING STANDARD NOTES ON 30201-90X1 ARE APPLICABLE TO THIS DRAWING 1, 2 & 22A.
2. FOR ADDITIONAL NOTES AND DETAILS SEE REFERENCE 1.
3. FOR WELDING DETAILS AND NOTES SEE REFERENCE 2.
4. PRESERVE VALVE WELDMENT PC. 2 IN ACCORDANCE WITH SCHEME "AK" SECT. E SHEET 6 OF REF. 3.
5. FINISH TO BE 250√ EXCEPT AS NOTED.
6. BEARING PC. 8 TO BE OILITE, AMPLEX DIVISION OF CHRYSLER CORPORATION, BOX #2718, DETROIT, MICHIGAN 48231. DIMS. 2 1/2" O.D. X 2" I.D. X 2" LONG, CAT. #AA-2501-2 OR EQUAL.
7. REMOVE GREASE FITTING FROM PC. 5 AND REPLACE WITH PC. 16.
8. BEARING PC. 18 TO BE OILITE, AMPLEX DIVISION OF CHRYSLER CORP., BOX #2718, DETROIT, MICHIGAN 48231. DIMS 3"ID X 3 1/2"OD X 3" LG, CAT. #AA-3502-8 OR EQUAL.
9. BEARING PC. 20 TO BE OILITE, AMPLEX DIVISION OF CHRYSLER CORP., BOX #2718, DETROIT, MICHIGAN 48231. DIMS 1 1/4"ID X 1 1/2"OD FLANGED, CAT.#FF-1506-4.
10. MARKINGS TO BE 3/8" HIGH AND A DEPTH OF NOT LESS THAN 0.02" DEEP. ENGRAVING TO BE FILLED WITH HARD PAINT OR ENAMEL OF CONTRASTING COLOR. PLATES TO BE CLEAR LAQUER OR EPOXY SPRAYED TO AVOID DISCOLORATION. THE HEADS OF FASTENERS SHALL NOT BE LOCATED CLOSER THAN 1/8" TO ANY LETTER.

DIMENSIONAL TOLERANCES -- UNLESS OTHERWISE SPECIFIED

MACHINED DIMENSION	DECIMALS 2 PL	DECIMALS 3 PL	FRACTIONS	WELDMENT DIMENSION	WELDMENT TOLERANCE	CASTING DIMENSION	CASTING TOLERANCE
				UNDER 24"	± 1/16"	UNDER 2"	+ 1/16" − 1/16"
UNDER 6"	±.010"	±.005"	± 1/64"	24" & OVER	± 1/8"	2" TO 5"	+ 3/32" − 1/16"
6" TO 24"	±.020"	±.010"	± 1/32"			5" TO 8"	+ 1/8" − 3/32"
24" & OVER	±.030"	±.015"	± 1/16"	ANGULAR ± 0° 30'		8" TO 12"	+ 3/16" − 1/8"
ANGULAR ± 0° 30'						12" TO 15"	+ 1/4" − 3/16"
						15" & OVER	+ 1/4" − 1/4"

FINISH SYMBOLS - MIL-STD-10A CONTROL SYMBOLS - MIL-STD-8C

REFERENCES

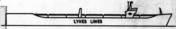
NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
4	LIST-LOCKS, KEYS & TAGS	30917-25 X 1	241-S12-04-01
3	PAINT SCHEDULE	30261-01 X 1	241-S19-01-01
2	STANDARD WELDING DETAILS	30313-01 X 2	241-S29-06-01
1	STANDARD STRUCTURAL DETAILS	30313-01 X 1	241-S11-17-01

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30652-50X1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR W. Clevenney
SUPV
ENGR

STABILIZER B'FLY VLV ARR & DETS

APPROVED DATE 8/23/0
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S29-04-01	B

SCALE AS NOTED SHEET 1 OF 1

APPROVAL LTR DATED
ABS NOT REQD
USCG NOT REQD
USPHS NOT REQD

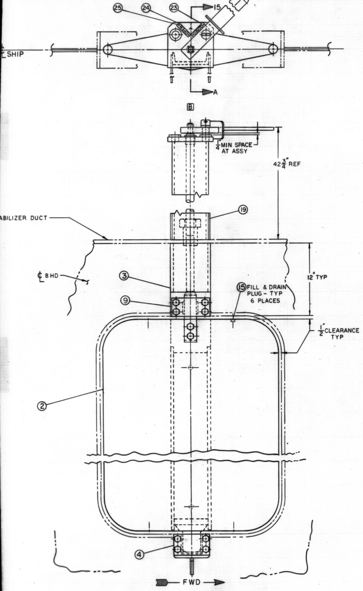
AREA = 28 SQ FT

TYPE I/YARD

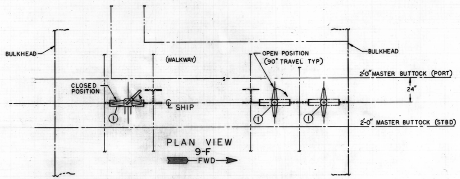
M.A. DWG NO. 241-S29-04-01

DWG. NO. 30652-50X1

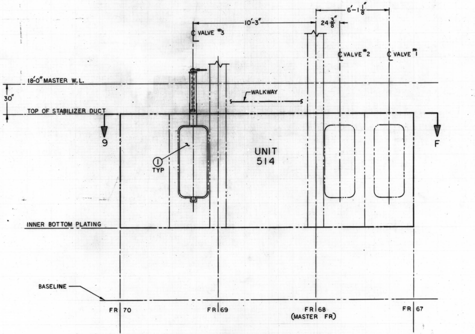
Q div DWG NO. 30652-50X1


25
24
23
15
A
℄ SHIP
B
$\frac{1}{4}$" MIN SPACE AT ASSY
42 $\frac{3}{4}$" REF
19
ABILIZER DUCT
℄ BHD
3
9
⑮ FILL & DRAIN PLUG - TYP 6 PLACES
12" TYP
$\frac{1}{2}$" CLEARANCE TYP
2
4
FWD

STABILIZER VALVE ASSY
VIEW LKG TO PORT
TYP 3 PLACES
SCALE: 3"=1'-0"


BULKHEAD
(WALKWAY)
OPEN POSITION (90° TRAVEL TYP)
BULKHEAD
2'-0" MASTER BUTTOCK (PORT)
CLOSED POSITION
℄ SHIP
24"
①
①
①
2'-0" MASTER BUTTOCK (STBD)
FWD

PLAN VIEW
9-F

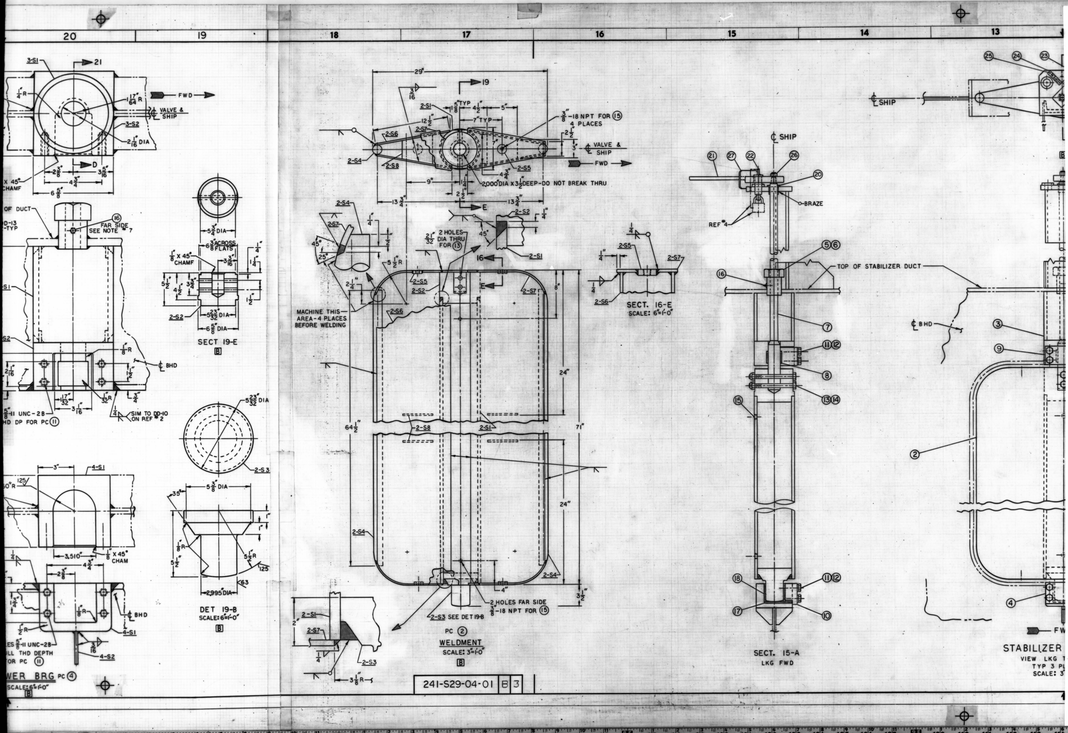

6'-1 $\frac{1}{8}$"
10'-3"
24 $\frac{3}{8}$"
℄ VALVE #3
℄ VALVE #2
℄ VALVE #1
18'-0" MASTER W.L.
WALKWAY
30"
TOP OF STABILIZER DUCT
9
F
① TYP
UNIT 514
INNER BOTTOM PLATING
BASELINE
FR 70
FR 69
FR 68 (MASTER FR)
FR 67

ELEVATION VIEW
LKG TO PORT
SCALE: $\frac{1}{2}$"=1'-0"

PIECE NO.	QUANTITY INSTL.		OBRP	MATL OR VDRS DWG
1	3			
2	3			
2-S1	3			STEEL
2-S2	3			STL HTNSL
2-S3	3			STL HTNSL
2-S4	6			STL HTNSL
2-S5	12			STL HTNSL
2-S6	12			STEEL
2-S7	12			STEEL
2-S8	12			STEEL
~~2-S9~~	~~3~~			~~STEEL~~
~~2-S10~~	~~3~~			~~STEEL~~
3	3			
3-S1	3			STEEL
3-S2	3			STEEL
3-S3	6			STEEL
4	3			
4-S1	3			STEEL
4-S2	6			STEEL
5	3			STEEL
6	3			FLAX
7	3			STL HTNSL
8	3			BRONZE
9	3			STEEL
10	3			STEEL
11	24			STEEL
12	24			STEEL
13	6			STEEL
14	6			STEEL
15	18			BRONZE
16	3			NI-CU
17	3			BRASS
18	3			BRONZE
19	3			
19-S1	3			STEEL
19-S2	3			STEEL
19-S3	6			STEEL
19-S4	6			STL HTNSL
20	3			BRONZE
21	3			STEEL
22	3			CRES
23	3			CRES
24	3			CRES
25	12			CRES
26	3			STEEL
27	3			STEEL

241-S29-04-01 | B | 2

GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO. 241-S29-04-01 GD NO. 30652-50x1 FRAME 1 ② 3 4

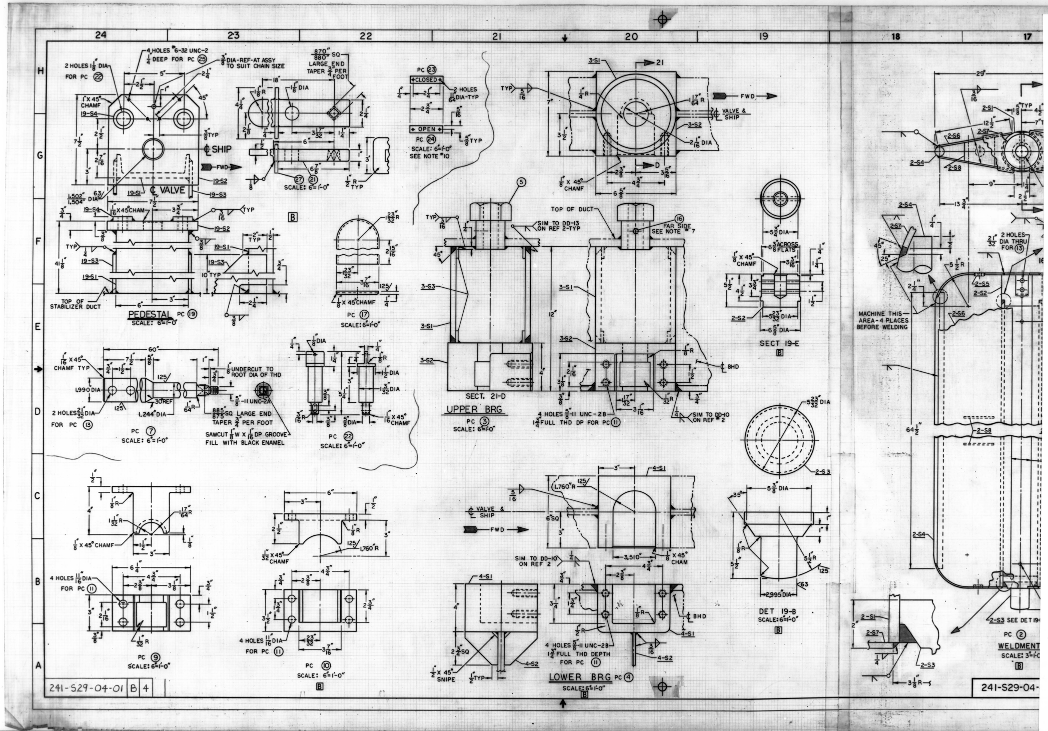

20
19
18
17
16
15
14
13
3-S1
21
FWD
℄ VALVE & SHIP
3-S2
2 1/16" DIA
17/64" R
1/4" R
D
X 45° CHAMF
OF DUCT
16
FAR SIDE SEE NOTE #7
℄ BHD
5/8"-11 UNC-2B
HD DP FOR PC ⑪
SIM TO DD-10 ON REF #2
SECT 19-E
B
5 3/4" DIA
6 3/8" ACROSS FLATS
1/8" X 45° CHAMF
2-S2
5 23/32" DIA
6 5/8" DIA
2-S3
DET 19-B
SCALE: 6"=1'-0"
5 3/8" DIA
2.995" DIA
4-S1
4-S2
3.510"
1/8" X 45° CHAM
ES 5/8"-11 UNC-2B
LL THD DEPTH
OR PC ⑪
WER BRG PC ④
SCALE: 6"=1'-0"
29"
19
2-S1
2-S6
2-S7
2-S4
2-S8
2-S5
3/8"-18 NPT FOR ⑮ 4 PLACES
7" TYP
5/8" TYP
℄ VALVE & SHIP
FWD
2.000 DIA X 3 1/2" DEEP - DO NOT BREAK THRU
E
2 HOLES DIA THRU FOR ⑬
16
MACHINE THIS AREA - 4 PLACES BEFORE WELDING
64 1/2"
71"
24"
24"
2 HOLES FAR SIDE 3/8"-18 NPT FOR ⑮
2-S3 SEE DET 19-B
PC ②
WELDMENT
SCALE: 3"=1'-0"
B
SECT. 16-E
SCALE: 6"=1'-0"
℄ SHIP
21
27
22
26
20
BRAZE
REF #4
5 6
16
TOP OF STABILIZER DUCT
7
11 12
8
13 14
15
18
17
10
SECT. 15-A
LKG FWD
℄ SHIP
25
24
23
℄ BHD
3
9
2
4
FWD
STABILIZER
VIEW LKG
TYP 3 PL
SCALE: 3
241-S29-04-01 B 3

GENERAL DYNAMICS, QUINCY DEC., 1973 8X

MA NO. 241-S29-04-01 GD NO. 30652-50 x1 FRAME 1 2 ③ 4

GENERAL DYNAMICS, QUINCY DEC, 1973 8X

MA NO.241-529-04-01 GD NO.30652-50x1 FRAME 1 2 3 ④


24
23
22
21
20
19
18
17
H
G
F
E
D
C
B
A
2 HOLES $1\frac{1}{8}$" DIA FOR PC ㉒
4 HOLES #6-32 UNC-2 $\frac{1}{4}$ DEEP FOR PC ㉕
$\frac{3}{8}$ DIA-REF-AT ASSY TO SUIT CHAIN SIZE
1" X 45° CHAMF
19-S4
℄ SHIP
FWD
19-S2
19-S1
℄ VALVE
19-S3
1.502" / 1.504" DIA
TOP OF STABILIZER DUCT
PEDESTAL PC ⑲
SCALE: 6"=1'-0"
.870" / .880" SQ LARGE END TAPER $\frac{3}{4}$" PER FOOT
PC ㉗ ㉑
SCALE: 6"=1'-0"
PC ㉓
CLOSED
OPEN
PC ㉔
2 HOLES $\frac{11}{64}$ DIA-TYP
SCALE: 6"=1'-0"
SEE NOTE #10
PC ⑰
SCALE: 6"=1'-0"
$\frac{1}{8}$ X 45° CHAMF
B
60"
$\frac{1}{16}$ X 45° CHAMF TYP
1.990" DIA
2 HOLES $\frac{21}{32}$ DIA FOR PC ⑬
30° REF
1.244" DIA
$\frac{1}{8}$ UNDERCUT TO ROOT DIA OF THD
$\frac{5}{8}$-11 UNC-2A
.885" / .875" SQ LARGE END TAPER $\frac{3}{4}$" PER FOOT
SAWCUT $\frac{1}{8}$ W X $\frac{1}{16}$ DP GROOVE FILL WITH BLACK ENAMEL
PC ⑦
SCALE: 6"=1'-0"
PC ㉒
SCALE: 6"=1'-0"
$\frac{1}{16}$ X 45° CHAMF
⑤
SIM TO DD-13 ON REF 2-TYP
3-S3
3-S1
3-S2
SECT. 21-D
UPPER BRG
PC ③
SCALE: 6"=1'-0"
TOP OF DUCT
⑯ FAR SIDE SEE NOTE #7
℄ BHD
4 HOLES $\frac{5}{8}$-11 UNC-2B $1\frac{3}{4}$ FULL THD DP FOR PC ⑪
SIM TO DD-10 ON REF #2
℄ VALVE & SHIP
$2\frac{1}{16}$ DIA
$1\frac{17}{64}$ R
$\frac{1}{8}$ X 45° CHAMF
21
D
SECT 19-E
$5\frac{3}{4}$ DIA
$6\frac{3}{8}$ ACROSS FLATS
$6\frac{5}{8}$ DIA
2-S2
$5\frac{23}{32}$ DIA
2-S3
DET 19-B
SCALE: 6"=1'-0"
$5\frac{3}{8}$ DIA
2.995" DIA
PC ⑨
4 HOLES $\frac{11}{16}$ DIA FOR PC ⑪
$\frac{1}{8}$ X 45° CHAMF
SCALE: 6"=1'-0"
PC ⑩
4 HOLES $\frac{11}{16}$ DIA FOR PC ⑪
$\frac{1}{32}$ X 45° CHAMF
1.760" R
SCALE: 6"=1'-0"
4-S1
4-S2
1.760" R
6" SQ
3.510"
$\frac{1}{8}$ X 45° CHAM
SIM TO DD-10 ON REF 2
$2\frac{3}{4}$ SQ
$\frac{1}{2}$ X 45° SNIPE
4 HOLES $\frac{5}{8}$-11 UNC-2B $1\frac{3}{4}$ FULL THD DEPTH FOR PC ⑪
LOWER BRG PC ④
SCALE: 6"=1'-0"
29"
2-S1
2-S6
2-S7
2-S8
2-S4
2-S5
2-S2
2 HOLES $\frac{21}{32}$ DIA THRU FOR ⑬
MACHINE THIS AREA-4 PLACES BEFORE WELDING
$64\frac{1}{2}$"
2-S3 SEE DET 19-
PC ②
WELDMENT
SCALE: 3"=1'-0"
241-S29-04-01 B 4
241-S29-04-

GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO. 241-529-06-01 GD NO. 30313-01x2 SH 1-6 OF 14 FRAME ① 2 3 4

MICROFILMED
(16)
9 R 2-7-72
J 12-4-73

DONE PLAN REVIEW COMPLETED
PROCESS ENG ______ DATE ______
DESIGN ASSURANCE ______ DATE ______
REFER TO DONE PLAN TEAM
REVIEW SHEET, FILE NO. ______

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE - SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO. INC.
DESIGN B5-L-M3

Q div DWG NO. 30313-01X2

GENERAL DYNAMICS
QUINCY DIVISION
QUINCY, MASSACHUSETTS 02169

DFTMN G.M.L.
DSGNR SAW
SUPV JHM
ENGR AOT/M.K.

STANDARD
WELDING DETAILS

APPROVED DATE A. Jackson 3/18/69
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO	MARITIME ADMINISTRATION NO	REV
25316	241-529-06-01	J
SCALE: NONE	SHEET 1 OF 14	

APPROVAL-LTR-DATED
ABS 9/4/69
USCG 8/26/69
USPHS NOT REQD

SHOP ORDER	REV	DATE	DEPT	QTY
30212	B	7-28-9	800	
30212	C	9-2-9	820	
	D	10-13-9	826	
	G	4-3-0	829	
	H	6-9-1	830	
	J	12-28-1	841	
			842	
			843	
		ABS	YD	1
		Nalkow MARAD		1
		JJ HENRY	YARD	1
		USCG	YARD	1
			811	
			851	
			861	
			871	2
			872	
			873	
			874	
			876	
			888	
			S OF S	
			LIBRARY	
			LOFT	
		TPS	P66	
			FEED	
		L/A		1
			TOTAL POINTS	10

SHOP ORDER	REV	DATE	DEPT	QTY
30212	D	7-25-9	800	4
30212	D	10-16-9	820	5
30212	G	4-8-0	826	10
"	H	6-11-1	829	3
			830	7
			841	
			842	
			843	
			844	
		Lead	320	1
			811	
			851	
			861	
			871	
			872	0
			873	
			874	
			876	1-812
			888	
			S OF S	
			LIBRARY	
			LOFT	
			340	1
			TOTAL POINTS	51

DISTRIBUTE FROM BOTH BLDGS

DISTRIBUTION
DWG NO. 30313-01X2 REV H
SHEET NO 2

REV	SHEET NO.	ITEM NO.	DESCRIPTION	BY	Q DIV. DATE	Q DIV. APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
A		1.	APPROVED BY J.J. HENRY CO. INC. PER FILE 5589/511/AHS-77-69 OF 16 APRIL 1969.	SAW	3/18/69		—	—	LTR 4/16	DTD /69
B		1.	ITEM 2 THRU 5 INCORPORATED IN ACCORDANCE WITH COAST GUARD LTR 5940/G.D. 18-20 OF 5-26-69.	SAW	7/24/9		—	—	LTR 8-12	DATED -69
	12	2.	ADDED WELDING NOTE TO CC-12.							
	5,6,7,4A	3.	REVISED SH 5, 6, 7 & ADDED GEN NOTE 24 TO SUIT.							
	4	4.	REVISED GEN NOTE 12.							
	9,11	5.	ADDED TOLERANCE OF ROOT GAP OF WELDS CC-9, FF-9 & CC-11.							
	14	6.	ADDED WELDING PROCEDURES, SH 14.							
	4	7.	DELETED GEN NOTE 15. SOURCE: ITEM 2 THRU 5 TO SUIT ITEM 1; ITEM 6 & 7 - DES DEV							
C	6	1.	ADDED ADDITIONAL CONNECTION TO BHDS FOR WT DR COAMINGS & REINFORCEMENTS.	SAW	9/12/69		—	—	LTR 10-27	DATED -69
	7	2.	REVISED WELD OF HATCH COAMINGS TO DKS.							
		3.	ITEMS 1 & 2 TO SUIT J.J. HENRY LTR-5589/529/AHS-264-69 DATED 8-12-9.							
	9	4.	ADDED REF TO NOTE 23 FOR WELDS BB-9, CC-9 & DD-9 - DES DEV.							
D	4	1.	REVISED GEN NOTE #11.	SE	1/6/69		—	—	LTR 10-27	DATED -69
	5,6,7	2.	REVISED "MAT'L THK" AT COLUMN HEADINGS.							
	5	3.	REVISED WELD AT CONN OF FLOORS TO "SHELL IN AFT PEAKS ETC" FOR MAT'L THK OF 22.95 TO 25.5.							
	6	4.	REVISED WELD OF UNBRACKETED FRS TO IB & BHD STIFF BKTS FOR MAT'L THK OF 25.5#-28.05#.							
	7	5.	REVISED WELD OF TRANSV OR DEEP BEAMS TO DKS IN TANKS FOR MAT'L THK OF 17.85#-20.4#.							
	7	6.	REVISED TABLE OF CONTINUOUS WELD SUBSTITUTION.							
	9	7.	WELD EE-9 ADDED 0"-1/8" DIM TO FLAT.							
	10,13	8.	DELETED AA-10, EE-10, FF-10 & CC-13.							
	12	9.	ADDED NOTE TO BACK CHIP & WELD FOR DD-12.							
	8,9,11,12,13	10.	CHGD TACK WELD TO 1/8" FILLET FOR WELD DETAILS DD-8, BB-8, EE-8, FF-8, AA-9, CC-11, DD-11, EE-11, FF-11, AA-12, EE-12, DD-13 & EE-13.							
	7	11.	CHGD WELD OF HATCH COAMINGS TO DKS FOR MAT'L THK 17.85#-20.4#.							
	3	12.	ADDED USCG APPROVAL DATES FOR REV A & B. SOURCE: ITEMS 1-9 TO SUIT ABS COMMENTS & LTR DATED 9/24/9 ITEM 10 TO SUIT J.J. HENRY LTR 6-26-9 ITEM 11 DESIGN DEV							

APPV BY USCG LTR 5940 GD 18-20 DTD 8-26-9
APPV BY J.J. HENRY LTR-5589/529/AHS-264-69 8-12-9
APPV BY J.J. HENRY LTR-5589 511/AHS-371-69 10-22-9
APPVD BY USCG LTR 5940 GD 18 20 11-6-69
ABS APPVL 1/7/0

REVISIONS
DWG. NO. 30313-01X2 REV D
SHEET NO. 3

REV	SHEET NO.	ITEM NO	DESCRIPTION	BY	Q DIV DATE	Q DIV APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
E	9	1.	CC-9 REVISE THICKNESS OF PLTG	DL	11/19/9		—	—	LTR 2/11	DTD /70
	9	2.	EE-9 REVISE THICKNESS OF PLTG							
	1	3.	ADDED JJ HENRY APPVL FOR REV C & D. SOURCE: ITEM 1 & 2 TO SUIT WELD ENG.							
	13	4.	ADDED 3/8" MAX TO DET. AA-13 ITEM 3 & 4 DES. DEV.							
F	8,9,10,11	1.	REVISED HT OF WELD TOLERANCE FROM 1/32" & 1/16" TO 0" & 1/16" FOR DETS AA-8, BB-8, CC-8, DD-8, EE-8, FF-8, BB-9, DD-9, EE-9, BB-10, CC-10, DD-10, AA-11, BB-11, CC-11, DD-11, EE-11 & FF-11.	LJS	1/20/10		—	—	LTR 2/1	DTD 7/70
	9,11,13	2.	CHGD FLAT DIM FROM 0" & 1/16" TO 0" & 1/8" FOR WELD DETS BB-9, CC-9, BB-11 & BB-13.							
	8	3.	DELETED 3/4" MAX "T" DIM ON FF-8.							
	9	4.	REVISED ROOT OPNG ON FF-9.							
	12	5.	REVISED WELD NOTE ON DD-12. EE-12, BACKING BAR NOTED AS TEMPORARY & WELD REVISED TO SUIT. SOURCE: REQUESTED BY WELDING ENGINEERING.							
G	4	1.	ADDED GEN NOTE 25	EF	4/3/70					
H	13	1.	ADDED DET FF-13 FOR ALT WELDING METHOD. THIS INCORP AEA # S-0496-LKS SOURCE: ITEM #1 - YARD REQUEST	EAM	6/9/71					
J		1.	GEN NOTE #13 SHT #4 REVISED TO REFER TO GEN NOTE #9 NOT 15 TO CORRECT. SOURCE CORR ACTION	MFB	11/23/71					

JJ HENRY APPV LTR 1/7/0
USCG 3/19/70
ABS 5/14/70

REVISIONS
DWG NO. 30313-01X2 REV J
SHEET NO 3A

4

GENERAL NOTES

1. IT MAY BE REQUIRED THAT SPECIAL PRECAUTIONS, SUCH AS THE USE OF PREHEAT OR SPECIAL ELECTRODES BE TAKEN WHERE SMALL FILLETS ARE USED FOR ATTACHMENT TO HEAVY PLATES.
2. THE FILLET WELD TABLES APPEARING ON PAGES 5, 6 & 7 ARE DESIGNED TO REPLACE "TABLE A, SPACING OF INTERMITTENT WELDS" IN SECTION 26 - A.B.S. RULES 1968.
3. ALL WELDS ARE BASED ON THE THINNER MEMBER BEING WELDED.
4. ALL INTERMITTENT WELDS TO BE CHAIN WELDS UNLESS OTHERWISE NOTED.
5. INTERMITTENT WELDS MARKED "S" TO BE STAGGERED.
6. WHERE THE OPENING BETWEEN MEMBERS EXCEED 1/16" AND IS NOT GREATER THAN 3/16" THE SIZE OF THE FILLETS SHOULD BE INCREASED BY THE AMOUNT OF OPENING.
7. UNBRACKETED STIFFENERS OF NON-TIGHT STRUCTURAL BULKHEADS, DECKHOUSE SIDES AND AFTER ENDS ARE TO HAVE A PAIR OF MATCHED INTERMITTENT WELDS AT EACH END. THE NOMINAL SIZE OF FILLET SHOWN IN WELDING TABLE, SH. 5, 6 & 7 TO BE USED.
8. UNBRACKETED STIFFENERS OF SHELL, WATERTIGHT AND OILTIGHT BULKHEADS AND HOUSE FRONTS ARE TO BE DOUBLE CONTINUOUS WELDS FOR ONE-TENTH OF THEIR LENGTH AT EACH END. (THE NOMINAL SIZE SHOWN IN WELDING TABLE, SH. 5, 6, & 7 TO BE USED).
9. INTERMITTENT WELDING OF MEMBERS OVER .75" IS TO BE SPECIALLY CONSIDERED BY STRUCT. DESIGN.
10. WHERE BEAMS, STIFFENERS, FRAMES, ETC. PASS THROUGH SLOTTED GIRDERS, SHELVES OR STRINGERS, THERE IS TO BE A PAIR OF MATCHED INTERMITTENT WELDS ON EACH SIDE OF INTERSECTIONS, AND THE BEAMS, STIFFENERS FRAMES, ETC. ARE TO BE EFFICIENTLY ATTACHED TO THE GIRDERS, SHELVES AND STRINGERS. (NOMINAL FILLET SH 5, 6, 7)
11. WHEN FULL PENETRATION MANUAL GROOVED WELDS ARE USED, THE ROOT OF THE WELD DEPOSITED FIRST MUST BE EITHER CHIPPED, GROUND, OR ARC AIR GOUGED TO SOUND METAL PRIOR TO WELDING THE SECOND SIDE OF THE JOINT. EXCEPTIONS TO THIS APPROACH REQUIRE PROCEDURE QUALIFICATION.
12. BOTTOM CONNECTION OF BULKHEAD TO DECK TO BE CONTINUOUS WELD ON BOTH SIDES.
13. FILLET WELDS ARE TO BE CARRIED AROUND EDGES OF ALL CUTS IN MEMBERS AND END OF MEMBERS WHERE PRACTICAL EXCEPT AS NOTED ON 30313-01X1, GEN. NOTE 9.
14. AUTOMATIC WELDING MAY BE USED IN LIEU OF MANUAL WELDING WHERE PRACTICABLE.
15. ~~ALL STRUCTURE REQUIRING A FEATHER EDGE WITH ADJACENT PLATE IS TO HAVE A 1/2" MIN. WIDTH PRIOR TO WELDING.~~
16. THESE GENERAL NOTES ARE FOR DESIGN PURPOSE ONLY. THE DESIRED WELDS, SPACING, TYPE OF WELD, ETC., SHALL BE SHOWN AND SPECIFIED ON THE STRUCTURAL DRAWING.

GENERAL NOTES
DWG. NO. 30313-01X2 REV J
SHEET NO. 4

5

GENERAL NOTES (CONT.)

17. ALL STRUCTURE AND ATTACHMENTS EXPOSED TO THE WEATHER SHALL BE CONTINUOUSLY WELDED. THIS SHALL INCLUDE ALL THREE (3) BARGE DECKS.
18. ALL STRUCTURE AND ATTACHMENTS BELOW FLOOR PLATES IN ENGINE ROOM AND SHAFT ALLEY SHALL BE CONTINUOSLY WELDED.
19. AREAS TO RECEIVE EPOXY OR INORGANIC ZINC COATINGS SHALL BE CONTINUOUSLY WELDED INCLUDING CONSTRUCTION SNIPES.
20. POTABLE WATER TANKS, FRESH WATER TANKS, STABILIZER TANKS, BALLAST TANKS AND ATTACHMENTS SHALL BE CONTINUOUSLY WELDED.
21. THE CONTINUOUS WELDS IN WAY OF PILLARS SHALL EXTEND AT LEAST 6" BEYOND PILLAR.
22. FACE PLATES IN WAY OF ALL BRACKETS TO BE WELDED DOUBLE CONTINOUS AT WEB.
23. JOINTS IDENTIFIED AS BB-9, CC-9 & DD-9 CAN BE SINGLE BEVELED WITH SECOND SIDE TO BE OPENED BY AIR-ARC GOUGING TO ROOT OF WELD AFTER WELDING OF INITIAL SIDE.
24. THE BOUNDARY CONNECTIONS OF BHDS, DKS, I.B., C.V.K., TUNNELS, FLATS FLOORS, ETC. IN WAY OF OIL TANKS ARE TO BE CONTINUOUSLY WELDED ON BOTH SIDES.
25. INTERMITTENT WELDING - SPACING OF WELD INCREMENTS AS SHOWN ON WORKING PLANS ARE MAXIMUM. SPACING MAY BE REDUCED TO STANDARDIZE WELD MARKING BY SHIPYARD. EXAMPLE: $\frac{5}{16}$ ▷ 3-12 / $\frac{1}{4}$ MAY BE REDUCED TO $\frac{5}{16}$ ▷ 3-10 / $\frac{1}{4}$

GENERAL NOTES
DWG. NO. 30313-01X2 REV G
SHEET NO. 4A

6

TABLE OF FILLET WELDS

ITEMS	CONNECTIONS △D²	NOT OVER 7.65"	OVER 7.65" TO 10.2" INCL.	OVER 10.2" TO 12.75" INCL.	OVER 12.75" TO 15.3" INCL.	OVER 15.3" TO 17.85" INCL.	OVER 17.85" TO 20.4" INCL.	OVER 20.4" TO 22.95" INCL.	OVER 22.95" TO 25.5" INCL.	OVER 25.5" TO 28.05" INCL.	OVER 28.05" TO 30.6" INCL.
	NOMINAL SIZE OF FILLET	1/8	3/16	1/4	1/4	5/16	5/16	3/8	3/8	7/16	7/16
SINGLE BOTT. FLR	TO CENTER KEELSON - NOTE: CONN ELSEWHERE TO TAKE SAME WELD AS FLR IN DBL BOTTOM	1/8 / 1/8 ▷ 1½-12	3/16 / 3/16 ▷ 2½-12	1/4 / 1/4 ▷ 3-12	5/16 / 1/4 ▷ 3-11	3/8 / 5/16 ▷ 3-12	1/4 / 5/16 ▷	5/16 / 3/8 ▷	5/16 / 3/8 ▷	3/8 / 3/8 ▷	3/8 / 3/8 ▷
DOUBLE BOTTOM FLOORS △D³	TO SHELL IN AFT PEAKS OF VESSELS HAVING HIGH POWER & FINE FORM	1/8-1½-6	3/16-2½-6	1/4-3-6	1/4-3-5	5/16-3-6	5/16-3-6	3/8-3-7	3/8-3-6	1/4 / 1/4 ▷	1/4 / 1/4 ▷
	TO SHELL FLAT OF BOTTOM FWD (FORE END STRENGTHENING) & IN PEAKS	1/8-1½-10	3/16-2½-10	1/4-3-10	1/4-3-9	5/16-3-10	5/16-3-10	3/8-3-11	3/8-3-10	3/8-3-8	3/8-3-8
	TO SHELL ELSEWHERE	1/8-1½-12S	3/16-2½-12S	1/4-3-12	1/4-3-11	5/16-3-12	5/16-3-11	3/8-3-12	3/8-3-12	5/16-3-7	3/8-3-8
	SOLID FLRS TO CVK IN ENG. RM, UNDER BOILER BEARERS, WIDE SPCD FLRS/LONG'L FRS & IN VESSELS WHERE LENGTH EXCEEDS 500 FT.	1/8 / 1/8 ▷ 1½-12	3/16 / 3/16 ▷ 2½-12	1/4 / 1/4 ▷ 3-12	5/16 / 1/4 ▷ 3-11	3/8 / 5/16 ▷ 3-12	1/4 / 5/16 ▷	5/16 / 3/8 ▷	5/16 / 3/8 ▷	3/8 / 3/8 ▷	3/8 / 7/16 ▷
	SOLID FLRS TO CVK ELSEWHERE & OPEN FLR BRKTS TO CVK	1/8-1½-10S	3/16-2½-10S	1/4-3-10	1/4-3-9	5/16-3-10	5/16-3-9	3/8-3-10	3/8-3-9	3/8-3-7	7/16-3-8
	SOLID FLRS & OPEN FLR BRKTS TO MARGIN PL	1/8 / 1/8 ▷ 1½-12	3/16 / 3/16 ▷ 2½-12	1/4 / 1/4 ▷ 3-12	5/16 / 1/4 ▷ 3-11	3/8 / 5/16 ▷ 3-12	1/4 / 5/16 ▷	5/16 / 3/8 ▷	5/16 / 3/8 ▷	3/8 / 3/8 ▷	3/8 / 3/8 ▷
	TO INNERBOTTOM IN ENGINE RM.	1/8 / 1/8 ▷ 1½-12	3/16 / 3/16 ▷ 2½-12	1/4 / 1/4 ▷ 3-12	5/16 / 1/4 ▷ 3-11	3/8 / 5/16 ▷ 3-12	1/4 / 5/16 ▷	5/16 / 3/8 ▷	5/16 / 3/8 ▷	1/4 / 3/8 ▷	3/8 / 3/8 ▷
	TO I.B. AT FWD END (FORE END STRENGTHENING)	1/8-1½-11S	3/16-2½-11S	1/4-3-11	1/4-3-10	5/16-3-11	5/16-3-10	3/8-3-11	3/8-3-10	3/8-3-8	3/8-3-8
	TO INNERBOTTOM ELSEWHERE	1/8-1½-12S	3/16-2½-12S	1/4-3-12	1/4-3-11	5/16-3-12	5/16-3-11	3/8-3-12	3/8-3-12	5/16-3-7	3/8-3-8
	WIDE SPCD WITH LONG'L FRAMING TO SHELL & I.B.	1/8 / 1/8 ▷ 1½-12	3/16 / 3/16 ▷ 2½-12	1/4 / 1/4 ▷ 3-12	5/16 / 1/4 ▷ 3-11	3/8 / 5/16 ▷ 3-12	1/4 / 5/16 ▷	5/16 / 3/8 ▷	5/16 / 3/8 ▷	3/8 / 3/8 ▷	3/8 / 3/8 ▷
	SOLID FLR STIFF AT W.T. OR O.T. BOUNDARIES	1/8-1½-12	3/16-2½-12	1/4-3-12	1/4-3-11	5/16-3-12	5/16-3-11	3/8-3-12	3/8-3-12	5/16-3-7	3/8-3-8
	W.T. & O.T. PERIPHERY CONNS OF FLRS THROUGHOUT DBL BOTTOM **	1/8 / 1/8 ▷ 1½-12	3/16 / 3/16 ▷ 2½-12	1/4 / 1/4 ▷ 3-12	5/16 / 1/4 ▷ 3-11	3/8 / 5/16 ▷ 3-12	1/4 / 5/16 ▷	5/16 / 3/8 ▷	5/16 / 3/8 ▷	3/8 / 3/8 ▷	3/8 / 3/8 ▷
CENTER GIRDER	N.T. TO I.B. OR RIDER PL IN WAY OF ENGINE & TO SHELL OR BAR KEEL	1/8 / 1/8 ▷ 1½-12	3/16 / 3/16 ▷ 2½-12	1/4 / 1/4 ▷ 3-12	5/16 / 1/4 ▷ 3-11	3/8 / 5/16 ▷ 3-12	1/4 / 5/16 ▷	5/16 / 3/8 ▷	5/16 / 3/8 ▷	3/8 / 3/8 ▷	3/8 / 3/8 ▷
	N.T. TO I.B. OR RIDER PL CLEAR OF ENGINE	1/8-1½-6	3/16-2½-6	1/4-3-6	1/4-3-5	5/16-3-6	5/16-3-5	3/8-3-6	3/8-3-6	1/4 / 1/4 ▷	1/4 / 1/4 ▷
	W.T. OR O.T. TO I.B. RIDER PLATE, SHELL OR BAR KEEL **	1/8 / 1/8 ▷ 1½-12	3/16 / 3/16 ▷ 2½-12	1/4 / 1/4 ▷ 3-12	5/16 / 1/4 ▷ 3-11	3/8 / 5/16 ▷ 3-12	1/4 / 5/16 ▷	5/16 / 3/8 ▷	5/16 / 3/8 ▷	3/8 / 3/8 ▷	3/8 / 3/8 ▷
DOUBLE BOTTOM INTER-COSTALS	INTERCOSTAL & CONT LONG'L GIRDERS TO SHELL ON FLAT OF BOTT. FWD (FORE END STRENGTHENING) & TO I.B. IN WAY OF ENGINES.	1/8-1½-6	3/16-2½-6	1/4-3-6	1/4-3-5	5/16-3-6	5/16-3-5	3/8-3-6	3/8-3-5	1/4 / 1/4 ▷	1/4 / 5/16 ▷
	INTERCOSTAL & CONT LONG'L GIRDERS TO SHELL & I.B. ELSEWHERE & TO FLRS	1/8-1½-11S	3/16-2½-11S	1/4-3-11	1/4-3-10	5/16-3-11	5/16-3-10	3/8-3-11	3/8-3-10	3/8-3-8	3/8-3-8
	W.T. & O.T. PERIPHERY CONNS OF LONG'L GIRDERS IN DBL BOTTOM **	1/8 / 1/8 ▷ 1½-12	3/16 / 3/16 ▷ 2½-12	1/4 / 1/4 ▷ 3-12	5/16 / 1/4 ▷ 3-11	3/8 / 5/16 ▷ 3-12	1/4 / 5/16 ▷	5/16 / 3/8 ▷	5/16 / 3/8 ▷	3/8 / 3/8 ▷	3/8 / 3/8 ▷

** SEE GEN NOTE 24

WELDING DETAILS
DWG. NO. 30313-01X2 REV D
SHEET NO. 5

8

TABLE OF FILLET WELDS (CONT.)

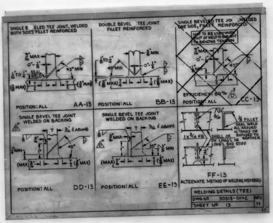
ITEMS	CONNECTIONS △D²	NOT OVER 7.65"	OVER 7.65" TO 10.2" INCL.	OVER 10.2" TO 12.75" INCL.	OVER 12.75" TO 15.3" INCL.	OVER 15.3" TO 17.85" INCL.	OVER 17.85" TO 20.4" INCL.	OVER 20.4" TO 22.95" INCL.	OVER 22.95" TO 25.5" INCL.	OVER 25.5" TO 28.05" INCL.	OVER 28.05" TO 30.6" INCL.
	NOMINAL SIZE OF FILLET	1/8	3/16	1/4	1/4	5/16	5/16	3/8	3/8	7/16	7/16
FRAMES △D⁴	TO SHELL IN AFT PEAKS OF VESSELS HAVING HIGH POWER & FINE FORM	1/8-1½-6	3/16-2½-6	1/4-3-6	1/4-3-5	5/16-3-6	5/16-3-6	3/8-3-7	3/8-3-6	1/4 / 1/4 ▷	1/4 / 1/4 ▷
	TO SHELL FOR .125 L FWD & IN PEAKS	1/8-1½-10	3/16-2½-10	1/4-3-10	1/4-3-9	5/16-3-10	5/16-3-10	3/8-3-11	3/8-3-10	3/8-3-8	3/8-3-8
	TO SHELL ELSEWHERE (SEE NOTE #8)	1/8-1½-12S	3/16-2½-12S	1/4-3-12	1/4-3-11	5/16-3-12	5/16-3-11	3/8-3-12	3/8-3-12	5/16-3-7	3/8-3-8
	UNBRACKETED TO I.B.	1/8 DBL CONT	3/16 DBL CONT	1/4 DBL CONT	1/4 DBL CONT	5/16 DBL CONT	5/16 DBL CONT	3/8 DBL CONT	3/8 DBL CONT	7/16 / 7/16 ▷	7/16 DBL CONT
	FRAME BRKTS TO FRAMES, LONG'L, DK & I.B.	1/8 DBL CONT	3/16 DBL CONT	3/16 DBL CONT	1/4 DBL CONT	1/4 DBL CONT	5/16 DBL CONT	5/16 DBL CONT	3/8 DBL CONT	3/8 DBL CONT	7/16 DBL CONT
	LONG'L TO SHELL & I.B.	1/8-1½-12S	3/16-2½-12S	1/4-3-12	1/4-3-11	5/16-3-12	5/16-3-11	3/8-3-12	3/8-3-12	5/16-3-7	3/8-3-8
	LONG'L TO SHELL ON FLAT OF BOTTOM FWD (FORE END STRENGTHENING)	1/8 DBL CONT	3/16 DBL CONT	1/4 DBL CONT	1/4 DBL CONT	5/16 DBL CONT	5/16 DBL CONT	3/8 DBL CONT	3/8 DBL CONT	7/16 DBL CONT	7/16 DBL CONT
GIRDERS & WEBS	TO SHELL & TO BHDS OR DKS IN TANKS	1/8-1½-8	3/16-2½-8	1/4-3-9	1/4-3-8	5/16-3-9	5/16-3-8	3/8-3-9	3/8-3-8	7/16-3-9	7/16-3-8
	TO BHDS OR DKS ELSEWHERE	1/8-1½-10	3/16-2½-10	1/4-3-10	1/4-3-9	5/16-3-10	5/16-3-9	3/8-3-10	3/8-3-9	3/8-3-7	7/16-3-8
	WEBS TO FACE PL WHERE AREA OF FACE PL IS 10 SQ IN. OR LESS	1/8-1½-10S	3/16-2½-10S	1/4-3-12	1/4-3-11	5/16-3-12	5/16-3-11	3/8-3-12	3/8-3-12	5/16-3-7	3/8-3-8
	WEBS TO FACE PL WHERE AREA OF FACE PL EXCEEDS 10 SQ IN.	1/8-1½-10	3/16-2½-10	1/4-3-10	1/4-3-9	5/16-3-10	5/16-3-9	3/8-3-10	3/8-3-9	3/8-3-7	7/16-3-8
BHDS	PERIPHERIES OF SWASH BHDS	1/8-1½-8	3/16-2½-8	1/4-3-9	1/4-3-8	5/16-3-9	5/16-3-8	3/8-3-9	3/8-3-8	7/16-3-9	7/16-3-8
	PERIPHERIES OF NT STRUCT BHDS *	1/8-1½-9	3/16-2½-9	1/4-3-10	1/4-3-9	5/16-3-10	5/16-3-9	3/8-3-10	3/8-3-9	3/8-3-7	7/16-3-8
	PERIPHERY OF O.T. OR W.T. BHDS * - **	1/8 / 1/8 ▷ 1½-12	3/16 / 3/16 ▷ 2½-12	1/4 / 1/4 ▷ 3-12	5/16 / 1/4 ▷ 3-11	3/8 / 5/16 ▷ 3-12	1/4 / 5/16 ▷	5/16 / 3/8 ▷	5/16 / 3/8 ▷	3/8 / 3/8 ▷	3/8 / 3/8 ▷
	STIFFS TO DEEP TANK BHDS (SEE NOTE #8)	1/8-1½-12S	3/16-2½-12S	1/4-3-12	1/4-3-11	5/16-3-12	5/16-3-11	3/8-3-12	3/8-3-12	5/16-3-7	3/8-3-8
	STIFFS TO ORDINARY W.T. BHDS & DK HSE FRONTS (SEE NOTE #8)	1/8-1½-12S	3/16-2½-12S	1/4-3-12	1/4-3-11	5/16-3-12	5/16-3-11	3/8-3-12	3/8-3-12	5/16-3-7	3/8-3-8
	STIFFS TO N.T. STRUCT BHDS STIFFS ON DKHSE SIDES AFT ENDS (SEE NOTE #7)	1/8-1½-12S	3/16-2½-12S	3/16-3-12S	1/4-3-12	1/4-3-12	5/16-3-12	3/8-3-12	3/8-3-12	3/8-3-12	7/16-3-12
△D⁴ △C¹	STIFF BRKTS TO BEAMS, DK ETC.	1/8 DBL CONT	3/16 DBL CONT	3/16 DBL CONT	1/4 DBL CONT	1/4 DBL CONT	5/16 DBL CONT	5/16 DBL CONT	3/8 DBL CONT	7/16 DBL CONT	7/16 DBL CONT
	WT DR COAMINGS & REINF PENETRATIONS TO BHDS	1/8 DBL CONT	3/16 DBL CONT	1/4 DBL CONT	1/4 DBL CONT	5/16 DBL CONT	5/16 DBL CONT	3/8 DBL CONT	3/8 DBL CONT	7/16 DBL CONT	7/16 DBL CONT

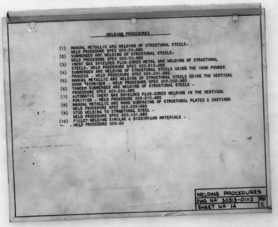
* SEE GEN NOTE 12
** SEE GEN NOTE 24

WELDING DETAILS
DWG. NO. 30313-01X2 REV D
SHEET NO. 6

7

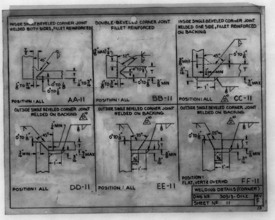
GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO. 241-529-06-01 GD NO. 30313-01×2 SH 7-14 OF 14 FRAME ① 2 3 4

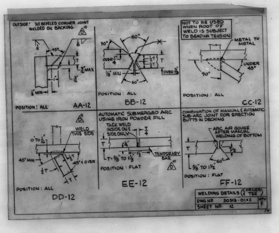

SINGLE BEVELED TEE JOINT, WELDED BOTH SIDES, FILLET REINFORCED
DOUBLE BEVEL TEE JOINT FILLET REINFORCED
SINGLE BEVELED TEE JOINT, WELDED ONE SIDE, FILLET REINFORCED
NOT TO BE USED WHEN ROOT OF WELD IS SUBJECT TO BENDING TENSION
EFFICIENCY: 80%
POSITION: ALL
AA-13
BB-13
CC-13
SINGLE BEVEL TEE JOINT WELDED ON BACKING
3/16 & ABOVE
DD-13
EE-13
FILLET SEAL WELD ALL AROUND IN TANKS OR EXPOSED TO WEATHER
SHELL OR DK LONG'L OR LONG'L BHD STIFF
FF-13
ALTERNATE METHOD OF WELDING MEMBERS
WELDING DETAILS (TEE)
DWG Nº 30313-01×2
SHEET Nº 13
REV H

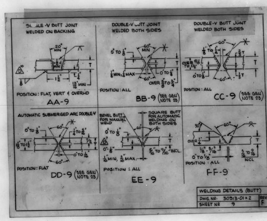

WELDING PROCEDURES

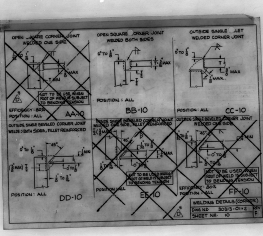
(1) MANUAL METALLIC ARC WELDING OF STRUCTURAL STEELS- WELD PROCEDURE SPEC 829-54-ABS
(2) SUBMERGED ARC WELDING OF STRUCTURAL STEELS- WELD PROCEDURE SPEC 829-53-ABS
(3) INERT GAS SHIELDED FLUX-CORED METAL ARC WELDING OF STRUCTURAL STEELS- WELD PROCEDURE SPEC 829-213-ABS
(4) SUBMERGED ARC WELDING OF STRUCTURAL STEELS USING THE IRON POWDER PROCESS - WELD PROCEDURE SPEC 829-241-ABS
(5) MANUAL METALLIC ARC WELDING OF STRUCTURAL STEELS USING THE VERTICAL DOWN TECHNIQUE - WELD PROCEDURE SPEC 829-232-ABS
(6) TANDEM SUBMERGED ARC WELDING OF STRUCTURAL STEELS - PROCEDURE SPEC 829-233-ABS
(7) AUTOMATIC INERT GAS SHIELDED FLUX-CORED WELDING IN THE VERTICAL POSITION - WELD PROCEDURE 829-215-ABS
(8) MANUAL METALLIC ARC HARD SURFACING OF STRUCTURAL PLATES & CASTINGS WELD PROCEDURE SPEC 829-234-ABS
(9) STUD WELDING TO STRUCTURAL STEEL - WELD PROCEDURE SPEC 829-101-ABS
(10) FILLET WELDING SIMILAR & DISSIMILAR MATERIALS - WELD PROCEDURE 829-60

WELDING PROCEDURES
DWG Nº 30313-01×2
SHEET Nº 14
REV E


INSIDE SINGLE BEVELED CORNER JOINT WELDED BOTH SIDES, FILLET REINFORCED
DOUBLE-BEVELED CORNER JOINT FILLET REINFORCED
INSIDE SINGLE BEVELED CORNER JOINT WELDED ONE SIDE, FILLET REINFORCED ON BACKING
POSITION: ALL
AA-11
BB-11
CC-11
OUTSIDE SINGLE BEVELED CORNER JOINT WELDED ON BACKING
DD-11
EE-11
FF-11
POSITION: FLAT, VERT & OVERHD
WELDING DETAILS (CORNER)
DWG Nº 30313-01×2
SHEET Nº 11
REV F


OUTSIDE SINGLE BEVELED CORNER JOINT WELDED ON BACKING
NOT TO BE USED WHEN ROOT OF WELD IS SUBJECT TO BENDING TENSION
METAL TO METAL
UNDER 45°
90°
POSITION: ALL
AA-12
BB-12
CC-12
AUTOMATIC SUBMERGED ARC USING IRON POWDER FILL
TACK WELD INSIDE ONE SIDE ONLY
TEMPORARY BAR
COMBINATION OF MANUAL & AUTOMATIC SUB-ARC JOINT FOR ERECTION BUTTS IN DECKING
ARC AIR GOUGE AFTER MANUAL WELDING OF BOTTOM
WELD THIS SIDE
45° MIN
45° & OVER
POSITION: FLAT
DD-12
EE-12
FF-12
WELDING DETAILS (CORNER & TEE)
DWG Nº 30313-01×2
SHEET Nº 12
REV F


SINGLE-V BUTT JOINT WELDED ON BACKING
DOUBLE-V BUTT JOINT WELDED BOTH SIDES
DOUBLE-V BUTT JOINT WELDED BOTH SIDES
POSITION: FLAT, VERT & OVERHD
POSITION: ALL
AA-9
BB-9 (SEE GEN NOTE 25)
CC-9 (SEE GEN NOTE 25)
AUTOMATIC SUBMERGED ARC DOUBLE-V
BEVEL BUTT FOR MANUAL WELD
SQUARE BUTT FOR AUTOMATIC WELDING ON BOTH SIDES
POSITION: FLAT
DD-9 (SEE GEN NOTE 25)
EE-9
FF-9
WELDING DETAILS (BUTT)
DWG. Nº 30313-01×2
SHEET Nº 9
REV F


OPEN SQUARE CORNER JOINT WELDED ONE SIDE
OPEN SQUARE CORNER JOINT WELDED BOTH SIDES
OUTSIDE SINGLE FILLET WELDED CORNER JOINT
NOT TO BE USED WHEN ROOT OF WELD IS SUBJECT TO BENDING TENSION
EFFICIENCY: 80%
POSITION: ALL
AA-10
BB-10
CC-10
OUTSIDE SINGLE BEVELED CORNER JOINT WELDED BOTH SIDES, FILLET REINFORCED
INSIDE SINGLE BEVELED CORNER JOINT WELDED ONE SIDE, FILLET REINFORCED
OUTSIDE SINGLE BEVELED CORNER JOINT WELDED ONE SIDE
DD-10
EE-10
FF-10
WELDING DETAILS (CORNER)
DWG Nº 30313-01×2
SHEET Nº 10
REV F

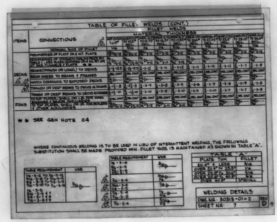


TABLE OF FILLET WELDS (CONT.)

ITEMS	CONNECTIONS	FILLET WELDS MATERIAL THICKNESS NOT OVER 7.65#	OVER 7.65# TO 10.2# INCL.	OVER 10.2# TO 12.75# INCL.	OVER 12.75# TO 15.3# INCL.	OVER 15.3# TO 17.85# INCL.	OVER 17.85# TO 20.4# INCL.	OVER 20.4# TO 22.95# INCL.	OVER 22.95# TO 25.5# INCL.	OVER 25.5# TO 28.05# INCL.	OVER 28.05# TO 30.6# INCL.
	NOMINAL SIZE OF FILLET	1/8	3/16	1/4	1/4	5/16	5/16	3/8	3/8	7/16	7/16
DECKS	PERIPHERIES OF PLATF DK & NT. FLATS	▷ 1½-12	▷ 2½-12	▷ 3-12	▷ 3-12	▷ 3-12	▷ 3-12	▷ 3-12	▷ 3-12	▷ 3-12	▷ 3-12
	PERIPHERIES OF STRENGTH DKS (AS REQ'D BY TABLE 1, ABS RULES) EXPOSED DK & ALL NT. OR OT. DKS, TUNNELS & FLATS ✱✱	▷ 1½-12	▷ 2½-12	▷ 3-12	▷ 3-11	▷ 3-12	▷	▷	▷	▷	▷
	BEAMS (TRANSV OR LONG'L) TO DECKS	1/8-1½-12.5	3/16-2½-12.5	1/4-3-12	1/4-3-11	5/16-3-12	5/16-3-11	3/8-3-12	3/8-3-12	7/16-3-7	7/16-3-8
	BEAM KNEES TO BEAMS & FRAMES	DBL CONT	DBL CONT	DBL CONT	DBL CONT	DBL CONT	DBL CONT	DBL CONT	DBL CONT	DBL CONT	DBL CONT
	HATCH COAMINGS TO EXPOSED DECKS	▷	▷	▷	▷	▷	▷	▷	▷	▷	▷
	TRANSV OR DEEP BEAMS TO DECKS IN TANKS	1/8-1½-8	3/16-2½-8	1/4-3-9	1/4-3-8	5/16-3-9	5/16-3-8	3/8-3-9	3/8-3-8	7/16-3-9	7/16-3-8
	TRANSV OR DEEP BEAMS TO DECKS ELSEWHERE	1/8-1½-10	3/16-2½-10	1/4-3-10	1/4-3-9	5/16-3-10	5/16-3-9	3/8-3-10	3/8-3-9	3/8-3-7	7/16-3-8
FDNS	TO TOP PLATES, SHELL OR I.B. FOR MAIN ENGINES & MAJOR AUXILIARIES	DBL CONT	DBL CONT	DBL CONT	DBL CONT	DBL CONT	DBL CONT	DBL CONT	DBL CONT	DBL CONT	DBL CONT
	TO TOP PLATES, SHELL OR I.B. FOR BOILERS & OTHER AUXILIARIES	▷ 1½-12	▷ 2½-12	▷ 3-12	▷ 3-11	▷ 3-12	▷	▷	▷	▷	▷

✱✱ SEE GEN NOTE 24

WHERE CONTINUOUS WELDING IS TO BE USED IN LIEU OF INTERMITTENT WELDING, THE FOLLOWING SUBSTITUTION SHALL BE MADE PROVIDED MIN. FILLET SIZE IS MAINTAINED AS SHOWN IN TABLE "A".

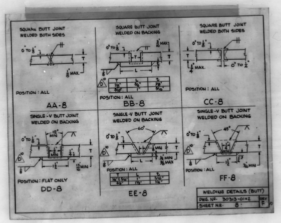
TABLE REQUIREMENT	USE
1/4-3-6 TO 1/4-3-12 5/16-3-8 TO 5/16-3-12 3/8-3-9 TO 3/8-3-12 7/16-3-10 TO 7/16-3-12 1/4-3-5 5/16-3-6 & 7 3/8-3-7 & 8 7/16-3-8 & 9	3/16 ▷

TABLE REQUIREMENT	USE
1/4-3-4 5/16-3-5 3/8-3-6 7/16-3-7	3/16 ▷
7/16-3-6	3/16 / 1/4 ▷
5/16-3-4 3/8-3-5	1/4 ▷
3/8-3-4 7/16-3-5	1/4 / 5/16 ▷
7/16-3-4	5/16 / 3/8 ▷

TABLE "A"

PLATE THK	FILLET
20.4# & LESS	3/16
OVER 20.4# TO 25.5#	1/4
OVER 25.5# TO 30.6#	5/16
OVER 30.6# TO 40.8#	3/8
OVER 40.8#	SPECIAL

WELDING DETAILS
DWG. Nº 30313-01×2
SHEET Nº 7
REV D


SQUARE BUTT JOINT WELDED BOTH SIDES
SQUARE BUTT JOINT WELDED ON BACKING
SQUARE BUTT JOINT WELDED BOTH SIDES
POSITION: ALL
AA-8
BB-8
CC-8
SINGLE-V BUTT JOINT WELDED ON BACKING
SINGLE-V BUTT JOINT WELDED ON BACKING
SINGLE-V BUTT JOINT WELDED ON BACKING
POSITION: FLAT ONLY
DD-8
EE-8
FF-8
WELDING DETAILS (BUTT)
DWG. Nº 30313-01×2
SHEET Nº 8
REV F

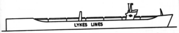
GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO.241-529-08-01 GD NO.30184-01X1 SH.1-4 OF 34 FRAME ① 2 3

INDEX DESCRIPTION	LOCATION	SHEET NO
TITLE SHEET		1
REVISIONS, GENERAL NOTES & RESERVATIONS		2
REFERENCES & DISTRIBUTION		3
SHELL		4-15
UPPER DECK		15-19
CABIN DECK		19-22
MAIN DECK		22-25
BUTTS IN VICINITY OF BREAKS OF SUPERSTRUCTURE		25
△B2 ADDITIONAL DK BUTTS & SEAMS		26, 27
DK BUTTS & SEAMS – CANTILEVER SECTION		27-30
SHELL BUTTS & INTERSECTIONS – CANTILEVER SECTION		30-34

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC	REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30184-01×1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN S. ENDRIS
DSGNR R.C. JONES
SUPV
ENGR AEP / M.K

NON-DESTRUCTIVE TESTING
LOG BOOK

APPROVED DATE 11/13/9
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-529-08-01	C

SHEET 1 OF 34

APPROVAL LTR DATED
ABS REVIEWED 12-23-69
USCG EXAMINED 12-12-69
USPHS NOT REQD

LYKES - SEA BARGE CLIPPER

GENERAL NOTES

1. THIS BOOKLET AND ITS ASSOCIATED DRAWINGS (REF 1 AND 2) REFLECT THE EXTENT OF WELD INSPECTION REQUIRED FOR SHELL AND DKS AS DEFINED IN SECT 2-3 OF THE SPECIFICATIONS FOR SEA BARGE CLIPPER. (M.A. DESIGN C8-S-82a).
2. ULTRASONIC INSPECTION OF STRUCTURAL WELDS WILL BE THE NORMAL INSPECTION METHOD; RADIOGRAPHIC INSPECTION WILL BE PERFORMED ONLY IN CASES IN WHICH ULTRASONIC INSPECTION IS IMPRACTICAL OR WHEN REQUESTED SPECIFICALLY BY THE OWNER OR REGULATORY BODIES.
3. INSPECTION OF DECK BUTTS AT HATCH CORNERS ARE TO BE TAKEN AS NEAR TO THE CORNER AS POSSIBLE.
4. ACCEPTANCE STANDARDS FOR INSPECTIONS TO BE IN ACCORDANCE WITH THE FOLLOWING QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES:
   ULTRASONIC INSPECTION - QC 5.10
   RADIOGRAPHIC INSPECTION - QA 5.2

RESERVATIONS

LTR	REVISIONS DESCRIPTION		Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
A	1. PLAN APPVD IN ACCORD WITH JJHENRY LTR 5589/529/AHS-61-70 DATED 2-12-70	JW	9/26/70		–	–	LTR	9/12/70
B	1. DELETED INSPECTION LOG No'S 178 & 181 TO SUIT REF # 2. 2. REVISED LOG No's 42 & 101 PLT THICKNESS & ADDED LOGS 42A, 101A & 218 THRU 303 (NEW SHTS #26 THRU 34) TO SUIT REF 1 & 2. 3. REVISED LOCATION OF LOG No.s 119, 120, 138, 139, 165, 180, 183, 215 & 217 TO SUIT REF # 2. 4. PLT THK AND/OR INSP LENGTH DATA ON LOG No.S GENERALLY REV TO SUIT REF # 1 & 2. 5. UNIT NUMBERS CORRECTED FOR LOGS 234, 236, 237, 255 & 256 AS NOTED IN J.J.H. APPL COMMENT 31 DEC 70. ITEM #2 RELEASED AND C # S-0442. SOURCE: ITEM #1-4 : DES DEV		12/1/70				IRH 31 DEC 70	DTD
C	1. SH # 34 - LOG # 304, 305 & 307 P, & 306, 308 & 309 S ADDED. SOURCE:- TO SUIT SPECIAL WELDING SEQUENCE # 772	EMFL						

SHEET NO. 2

LYKES - SEA BARGE CLIPPER

REVISIONS	O	A	B	C
TO	11 12 9	2 27 0	12 15 0	
LYKES			1	
M.A.(WASH)			–	
M.A.(YARD)	1	1	1	
J.J.HENRY(YARD)	1	1	1	
J.J.HENRY(HOME)			1	
ABS	1	1	1	
USCG	1	1	1	
USPHS				
Rec'd 899	1	1		
TPS 866	1	1		
871	22	4	4	
872	6		2	
873				
874	1			
875				
876	2		1	
865	1	1		
11A 868			2	
TOTAL NRO'S FS	38	11	15	
TOTAL NRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE
30212	O	11-13-9
30212	A	3-4-0
" (34)	B	12-21-0

DEPT	QTY FS	QTY HS
800		
H/ 820	2	
826		
829	6	
830		
841		
842		
843	4	
844		
899		
LIBRARY	3	
851	3	
852	3	
853	4	
TOTAL	20	

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
2	NDT OF UPPER DK, MN DK & CABIN DK	30184-01×3	241-529-08-03
1	NDT OF SHELL PLATING	30184-01×2	241-529-08-02

REFERENCES

SHEET NO. 3

LYKES - SEA BARGE CLIPPER

SHELL

LOGS 1 TO 10

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp RT	type of insp UT	req. insp length	initial insp.	results weld rej.	results weld rej.	results G.D. acc.	date repairs rec'd.		date repairs insp.		box no.	remarks
1		301	FK/A 37	1 1/8" 1 3/16"			8"×8"										△B4
2		301 311	FK/A 40	1" 1 3/16" 1 1/4"													
3		311	FK/A 43	1 1/4" 1 3/8"													
4		311 401	FK/A 46	1 3/8"													
5		401 411	FK/A 52	1 3/8"													
6		411 501	FK/A 58	1 3/8"													
7		501	FK/A 61	1 1/8" 1 1/4" 1 3/8"													
8		501 522 523	FK/A 64	1 1/8" 1 3/16 1 1/4"													
9		522 523 524 525	FK/A 68	15/16" 1 1/8" 1 3/16													
10		524 525 622 623	FK/A 71	15/16" 1 3/16"			8"×8"										

SHEET NO. 4 △B

GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO. 241-S29-08-01 GD NO. 30184-01X1 SH. 5-8 OF 34 FRAME ① 2 3 4

SHELL

LYKES - SEA BARGE CLIPPER

LOGS 41 TO 50

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp RT	UT	req. insp length	initial insp.	results weld rej.	weld rej.	G.D. acc.	date repairs rec'd.	date repairs insp.	box no.	remarks
41		627	F/79	7/8" 15/16"			8"								
42		307	Q/37	11/16 21/32											△B 2
42A		307	Q/38	11/16											△B 2
43		307 317	Q/40	11/16" 3/4"											△B 4
44		317	Q/43	3/4" 13/16"											△B 4
45		317 407	Q/46	13/16"											
46		407	Q/49	13/16"											
47		407 417	Q/52	13/16"											
48		417	Q/55	13/16"											
49		417 507	Q/58	13/16"											
50		507	Q/61	13/16"			8"								

SHEET NO. 8

SHELL

LYKES - SEA BARGE CLIPPER

LOGS 21 TO 30

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp RT	UT	req. insp length	initial insp.	results weld rej.	weld rej.	G.D. acc.	date repairs rec'd.	date repairs insp.	box no.	remarks
21		413 503	E/58	1"			8"								
22		503	E/61	1"											
23		503 523	E/64	1" 1 1/8"											
24		523	E/66	1 1/8"											OPTIONAL
25		523 525	E/68	1 1/8"											
26		525	E/70	1 1/8"											OPTIONAL
27		525 623	E/71	15/16" 1 1/8"											
28		623 625	E/75	15/16"											
29		625	E/77	15/16"											OPTIONAL
30		625 627	E/78	15/16"			8"								

SHEET NO. 6

SHELL

LYKES - SEA BARGE CLIPPER

LOGS 31 TO 40

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp RT	UT	req. insp length	initial insp.	results weld rej.	weld rej.	G.D. acc.	date repairs rec'd.	date repairs insp.	box no.	remarks
31		627	E/F/79	7/8" 15/16"			8"								
32		627 703	F/83	3/4" 7/8"											
33		503 523	F/64	15/16" 1 1/8"											
34		523	F/66	1 1/8"											OPTIONAL
35		523 525	F/68	1 1/8"											
36		525	F/70	1 1/8"											OPTIONAL
37		525 623	F/71	15/16" 1 1/8"											
38		623 625	F/75	15/16"											
39		625	F/77	15/16"											OPTIONAL
40		625 627	F/78	15/16"			8"								

SHEET NO. 7

SHELL

LYKES - SEA BARGE CLIPPER

LOGS 11 TO 20

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp RT	UT	req. insp length	initial insp.	results weld rej.	weld rej.	G.D. acc.	date repairs rec'd.	date repairs insp.	box no.	remarks
11		622 623 624 625	FK/A/75	15/16" 1 3/16"			8"x8"								
12		624 625 626 627	FK/AA/78	15/16" 1 3/16"											
13		626 627	FK/AA/79	7/8" 15/16" 1 3/16"											
14		626 627 701	FK/AA/82	7/8" 1 3/16"											
15		701	FK/AA/84	3/4" 7/8" 1 3/16"			8"x4"								△E 4
16		313	E/F/43	15/16" 1"			8"								
17		313 403	E/46	1"											
18		403	E/49	1"											
19		403 413	E/52	1"											
20		413	E/55	1"			8"								

SHEET NO. 5

GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO.241-529-08-01 GD NO.30184-01-X1 SH 9-12 OF 34 FRAME ① 2 3 4

LYKES - SEA BARGE CLIPPER

SHELL

LOGS 81 TO 90

log no.	date rec'd	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
81		502	E 61	1"			8"								
82		502 522	E 64	1" 1 1/8"											
83		522	E 66	1 1/8"											OPTIONAL
84		522 524	E 68	1 1/8"											
85		524	E 70	1 1/8"											OPTIONAL
86		524 622	E 71	15/16" 1 1/8"											
87		622 624	E 75	15/16"											
88		624	E 77	15/16"											OPTIONAL
89		624 626	E 78	15/16"											
90		626	E/F 79	7/8" 15/16"			↓ 8"								

SHEET NO. 12

LYKES - SEA BARGE CLIPPER

SHELL

LOGS 61 TO 70

log no.	date rec'd	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
61		301 311	FK/A 40	1" 1 3/16" 1 1/4"			8"x8"								
62		311	FK/A 43	1 1/4" 1 3/8"											
63		311 401	FK/A 46	1 3/8"											
64		401 411	FK/A 52	1 3/8"											
65		411 501	FK/A 58	1 3/8"											
66		501	FK/A 61	1 1/8" 1 1/4" 1 3/8"											
67		501 522	FK/A 64	1 1/8" 1 3/16" 1 1/4"											
68		522 524	FK/A 68	15/16" 1 1/8" 1 3/16"											
69		524 622	FK/A 71	15/16" 1 3/16"											
70		622 624	FK/A 75	15/16" 1 3/16"			↓ 8"x8"								

SHEET NO. 10

LYKES - SEA BARGE CLIPPER

SHELL

LOGS 71 TO 80

log no.	date rec'd	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
71		624 626	FK/AA 78	15/16" 1 3/16"			8"x8"								
72		626	FK/AA 79	7/8" 15/16" 1 3/16"											
73		626 701	FK/AA 82	7/8" 1 3/16"			↓								
74		701	FK/AA 84	3/4" 7/8" 1 3/16"			8"x4								B 4
75		312	E/F 43	15/16" 1"			8"								
76		312 402	E 46	1"											
77		402	E 49	1"											
78		402 412	E 52	1"											
79		412	E 55	1"											
80		412 502	E 58	1"			↓ 8"								

SHEET NO. 11 B

LYKES - SEA BARGE CLIPPER

SHELL

LOGS 51 TO 60

log no.	date rec'd	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
51		507 517	Q 64	13/16"			8"								
52		517	Q 66	13/16"											OPTIONAL
53		517 607	Q 69	13/16"											
54		607	Q 72	13/16"											
55		607 617	Q 75	13/16"											
56		617	Q 78	13/16"											
57		617 707	Q 81	13/16"											
58		707	Q 84	11/16" 13/16"											
59		707 717	Q 87	11/16"			↓ 8"								
60		301	FK/A 37	1 1/8" 1 3/16"			8"x8"								B 4

SHEET NO. 9 B

GENERAL DYNAMICS, QUINCY DEC., 1973 8X

MA NO.241-S29-08-01 GD NO.30184-01-X1 SH.13-16 OF 34 FRAME ① 2 3 4

DK-UPPER

LYKES - SEA BARGE CLIPPER

LOGS 121 TO 130

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.		date repairs insp.		box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.						
121		306 316	Q/E 40	11/16" 3/4" 1 1/4"			8"x8"										
122		316	Q/E 43	3/4" 13/16"			8"x4"										△B^{4}
123		316 406	Q/E 46	13/16"			8"x8"										
124		406	Q/E 49	13/16"			8"x4"										△B^{4}
125		406 416	Q/E 52	13/16"			8"x8"										
126		416	Q/E 55	13/16"			8"x4"										△B^{4}
127		416 506	Q/E 58	13/16"			8"x8"										
128		506	Q/E 61	13/16"			8"x4"										△B^{4}
129		506 516	Q/E 64	13/16" 7/8"			8"x8"										
130		516	Q/E 66	13/16" 7/8"			8"x4"										△B^{4}

SHEET NO. 16

SHELL

LYKES - SEA BARGE CLIPPER

LOGS 101 TO 110

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.		date repairs insp.		box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.						
101		306	Q/37	11/16 21/32			8"										△B^{2}
101A		306	Q/38	11/16													△B^{2}
102		306 316	Q 40	3/4"													△B^{4}
103		316	Q 43	3/4" 13/16													△B^{4}
104		316 406	Q 46	13/16"													
105		406	Q 49	13/16"													
106		406 416	Q 52	13/16"													
107		416	Q 55	13/16"													
108		416 506	Q 58	13/16"													
109		506	Q 61	13/16"													
110		506 516	Q 64	13/16"			8"										

SHEET NO. 14 △B

SHELL/DK-UPPER

LYKES - SEA BARGE CLIPPER

LOGS 111 TO 120

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.		date repairs insp.		box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.						
111		516	Q 66	13/16"			8"										SHELL
112		516 606	Q 69	13/16"													SHELL
113		606	Q 72	13/16"													SHELL
114		606 616	Q 75	13/16"													SHELL
115		616	Q 78	13/16"													SHELL
116		616 706	Q 81	13/16"													SHELL
117		706	Q 84	13/16" 11/16"													SHELL
118		706 716	Q 87	11/16"			8"										SHELL
119		306	Q/E 37	9/16 11/16			8"x8"										DK △B^{3}
120		306	Q/E 38	11/16"			8"x4"										DK △B^{3}

SHEET NO. 15 △B

SHELL

LYKES - SEA BARGE CLIPPER

LOGS 91 TO 100

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.		date repairs insp.		box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.						
91		626 702	F 83	3/4" 7/8"			8"										
92		502 522	F 64	15/16" 1 1/8"													
93		522	F 66	1 1/8"													OPTIONAL
94		522 524	F 68	1 1/8"													
95		524	F 70	1 1/8"													OPTIONAL
96		524 622	F 71	15/16" 1 1/8"													
97		622 624	F 75	15/16"													OPTIONAL
98		624	F 77	15/16"													
99		624 626	F 78	15/16"													
100		626	F 79	7/8" 15/16"			8"										

SHEET NO. 13

GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO. 241-S29-08-01 GD NO. 30184-01X1 SH. 17-20 OF 34 FRAME ① 2 3 4

LYKES - SEA BARGE CLIPPER

LOGS 161 TO 170

DK-CABIN

log no.	date rec'd.	unit no.	location shake/fr.	plate thick	type of insp RT	type of insp UT	req. insp length	initial insp.	results weld rej.	results weld rej.	results G.D. acc.	date repairs rec'd.	date repairs insp.	box no.	remarks
161		506 516	E/F 64	3/8" 7/16"			8"×8"								
162		516	E/F 67	3/8" 7/16" 1/2"			8"x4"								△B4
163		516	E/F 67	3/8" 1/2"			8"x4"								△B4
164		516 606	E/F 69	1/2 5/8"			8"x8"								
165		606 616	E/F 75	1 5/8"			8"x8"								△B3
166		616 706	E/F 81	5/8"			↓								
167		706	E/F 82	1/2" 5/8"			↓								
168		706	E/F 84	3/8" 1/2" * 1/2" 9/16" **			8"x4"								* HULL No. 18 ONLY ** HULL No. 19 & 20 ONLY △B4
169		706	E/F 84	3/8" 7/16" * 1/2" 9/16" **			8"x4"								* HULL No. 18 ONLY ** HULL No. 19 & 20 ONLY △B4
170		706 716	E/F 87	3/8" 7/16"			8"x8"								

SHEET NO. 20

LYKES - SEA BARGE CLIPPER

LOGS 141 TO 150

DK-UPPER

log no.	date rec'd.	unit no.	location shake/fr.	plate thick	type of insp RT	type of insp UT	req. insp length	initial insp.	results weld rej.	results weld rej.	results G.D. acc.	date repairs rec'd.	date repairs insp.	box no.	remarks
141		317	Q/E 43	3/4" 13/16			8"×4"								△B4
142		317 407	Q/E 46	13/16"			8"x8"								
143		407	Q/E 49	13/16"			8"x4"								△B4
144		407 417	Q/E 52	13/16"			8"x8"								
145		417	Q/E 55	13/16"			8"x4"								△B4
146		417 507	Q/E 58	13/16"			8"x8"								
147		507	Q/E 61	13/16			8"x4"								△B4
148		507 517	Q/E 64	13/16" 7/8"			8"x8"								
149		517	Q/E 66	13/16" 7/8"			8"x4"								OPTIONAL △B4
150		517 607	Q/E 69	13/16" 7/8" 1 1/2"			8"×8"								

SHEET NO. 18

LYKES - SEA BARGE CLIPPER

LOGS 151 TO 160

DK: UPPER CABIN

log no.	date rec'd.	unit no.	location shake/fr.	plate thick	type of insp RT	type of insp UT	req. insp length	initial insp.	results weld rej.	results weld rej.	results G.D. acc.	date repairs rec'd.	date repairs insp.	box no.	remarks
151		607	Q/E 72	13/16" 1 1/2"			8"×4"								UPPER DK △B4
152		607 617	Q/E 75	13/16" 1 3/16" 1 1/2"			8"x8"								UPPER DK
153		617	Q/E 78	13/16 1 3/16			↓								UPPER DK
154		617 707	Q/E 81	13/16 1 3/16			↓								UPPER DK
155		707	Q/E 84	11/16" 3/4" 1 3/16" 13/16"			↓								UPPER DK △B4
156		707 717	Q/E 87	11/16" 3/4" 1 3/16"			↓								UPPER DK
157		306 316	E/F 40	3/8" 7/16			↓								CABIN DK
158		316 406	E/F 46	3/8" 7/16			↓								CABIN DK
159		406 416	E/F 52	3/8" 7/16			↓								CABIN DK
160		416 506	E/F 58	3/8" 7/16			8"×8"								CABIN DK

SHEET NO. 19

LYKES - SEA BARGE CLIPPER

LOGS 131 TO 140

DK-UPPER

log no.	date rec'd.	unit no.	location shake/fr.	plate thick	type of insp RT	type of insp UT	req. insp length	initial insp.	results weld rej.	results weld rej.	results G.D. acc.	date repairs rec'd.	date repairs insp.	box no.	remarks
131		516 606	Q/E 69	13/16" 7/8" 1 1/2"			8"×8"								△B4
132		606	Q/E 72	13/16" 1 1/2"			8"x4"								△B4
133		606 616	Q/E 75	13/16" 1 1/2"			8"x8"								△B4
134		616	Q/E 78	13/16" 1 3/16"			8"x4"								△B4
135		616 706	Q/E 81	13/16" 1 3/16			8"x8"								
136		706	Q/E 84	11/16 3/4" 13/16			↓								
137		706 716	Q/E 87	11/16" 3/4" 1 3/16"			↓								
138		307	Q/E 37	11/16"			↓								△B3
139		307	Q/E 38	11/16"			8x4								△B3
140		307 317	Q/E 40	11/16" 3/4" 1 1/8"			8"×8"								△B4

SHEET NO. 17 △B

GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO. 241-S29-08-01 GD NO. 30184-01X1 SH. 21-24 OF 34 FRAME ① 2 3 4

DK·MN

LYKES - SEA BARGE CLIPPER

LOGS 201 TO 210

log no.	date rec'd	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
201		307 317	E/F 40	3/8" 13/32"			8"×4"								△B 4
202		317 407	E/F 46	13/32" 7/16"			8"x8"								△B 4
203		407 417	E/F 52	13/32" 7/16			↓								△B 4
204		417 507	E/F 58	3/8" 13/32"			↓								
205		507 517	E/F 64	3/8" 13/32			↓								
206		517	E/F 67	3/8" 13/32" 9/16"			8"x4"								△B 4
207		517	E/F 67	3/8" 9/16"			8"x4"								△B 4
208		517 607	E/F 69	7/16" 9/16"			8x8								△B 4
209		607	E/F 71	7/16" 5/8"			8"x8"								△B 4
210		607 617	E/F 75	9/16" 13/16"			8"x8"								△B 4

SHEET NO. 24 △B

DK: CABIN
MAIN

LYKES - SEA BARGE CLIPPER

LOGS 181 TO 190

log no.	date rec'd	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
181		607	F 74	7/8" 1 3/16"			8"								CABIN DK DELETED △B 1
182		607 617	E/F 75	5/8" 13/16"			8"x 8"								CABIN DK △B 4
183		617	E/F 80	5/8" 3/4"			↓								CABIN DK △B 3
184		617 707	E/F 81	3/4"			↓								CABIN DK △B 4
185		707	E/F 83	1/2" 3/4"			↓								CABIN DK △B 4
186		707	E/F 85	3/8" 1/2" 7/16"			8"x4"								CABIN DK △B 4
187		707	E/F 85	3/8" 7/16 1/2"			8"x4"								CABIN DK △B 4
188		707 717	E/F 87	3/8" 7/16"			8"x8"								CABIN DK
189		306 316	E/F 40	3/8" 13/32"			8"x4"								MN DK △B 4
190		316 406	E/F 46	3/8" 13/32" 7/16			8"x4"								MN DK. △B 4

SHEET NO. 22 △B

DK·MN

LYKES - SEA BARGE CLIPPER

LOGS 191 TO 200

log no.	date rec'd	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
191		406 416	E/F 52	13/32 7/16			8"x8"								△B 4
192		416 506	E/F 58	3/8" 13/32"			↓								
193		506 516	E/F 64	3/8" 13/32"			↓								
194		516	E/F 67	3/8" 13/32 7/16			8"x4"								△B 4
195		516	E/F 67	3/8" 7/16			8"x4"								△B 4
196		516 606	E/F 69	7/16" 9/16"			8"x8"								
197		606 616	E/F 75	13/16" 11/16"			↓								△B 4
198		616 706	E/F 81	9/16"			↓								
199		706	E/F 82	7/16" 9/16"			↓								△B 4
200		706 716	E/F 87	7/16"			8"x8"								

SHEET NO. 23 △B

DK·CABIN

LYKES - SEA BARGE CLIPPER

LOGS 171 TO 180

log no.	date rec'd	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
171		307 317	E/F 40	3/8" 7/16			8"x8"								
172		317 407	E/F 46	3/8" 7/16			↓								
173		407 417	E/F 52	3/8" 7/16			↓								
174		417 507	E/F 58	3/8" 7/16			↓								
175		507 517	E/F 64	3/8" 7/16			↓								
176		517	E/F 67	3/8" 7/16 1/2			8"x4"								△B 4
177		517	E/F 67	3/8" 1/2			8"x4"								△B 4
178		517	E/F 69	1/2" 3/4											DELETED △B 1
179		517 607	E/F 69	5/8" 1/2"			8"x8"								△B 4
180		607	E/F 72	13/16" 5/8"			8"x8"								△B 3

SHEET NO. 21 △B

GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO. 241-529-08-01 GD NO. 30184-01X1 SH: 25-28 OF 34 FRAME ① 2 3 4

UPPER
CABIN DK

LYKES - SEA BARGE CLIPPER

LOGS 241 TO 250

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
241		903 905	E/F 110	5/8" 7/8"			8"x4"								UPPER DK
242		903 905	G 110	5/8" 7/8"			8"								UPPER DK
243		905 907	F 115	5/8			8"								UPPER DK
244		816 902	E/F 106	11/32" 5/8"			8"x4"								CABIN DK
245		816 902	E/F 102	11/32" 7/16" 5/8"			8"x4"								CABIN DK
246		902 904	E/F 110	7/16" 5/8"			8"x4"								CABIN DK
247		902 904	E/F 110	7/16 5/8			8"								CABIN DK
248		904 906	E 115	7/16			8"								CABIN DK
249		817 903	E 106	11/32" 5/8"			8"x4"								CABIN DK
250		817 903	E/F 106	11/32" 7/16" 5/8"			8"x4"								CABIN DK

SHEET NO. 28 △B^{2}

CABIN
MAIN DK

LYKES - SEA BARGE CLIPPER

LOGS 221 TO 230

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
221		616	E/F 77	7/8" 1 5/8"			8"x8"								CABIN DK
222		616	E/F 80	5/8" 7/8"			↓								CABIN DK
223		606	E/F 71	9/16" 5/8"			↓								MAIN DK
224		606	E/F 73	5/8" 13/16"			↓								MAIN DK
225		607	E/F 73	5/8" 13/16"			↓								MAIN DK
226		606 616	F 75	1 5/8"			8"x4"								CABIN DK OPTIONAL BUTT
227		416	E/F 52	13/32" 7/16" 3/8"			8"x8"								MAIN DK
228		417	E/F 52	13/32" 7/16" 3/8"			8"x8"								MAIN DK
229		306 316	E/F 40	3/8 13/32			8"x4"								MAIN DK
230		617	E/F 80	9/16 5/8			8x8								MAIN DK

SHEET NO. 26 △B^{2}

UPPER
MAIN DK

LYKES - SEA BARGE CLIPPER

LOGS 231 TO 240

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
231		307 317	E/F 40	3/8" 13/32"			8"x4"								MAIN DK
232		316 406	E/F 46	3/8" 13/32			8"x4"								MAIN DK
233		317 407	E/F 46	3/8" 13/32"			8"x4"								MAIN DK
234		816 902	F/G 106	5/8" 7/8"			8"x8"								UPPER DK
235		902	F 108	7/8" 1 1/2"			8"								UPPER DK
236		902 904	F/G 110	7/8" 5/8"			8"x4"								UPPER DK
237		902 904	G 110	5/8" 7/8"			8"								UPPER DK
238		904 906	F 115	5/8"			8"								UPPER DK
239		817 903	F/G 106	5/8" 7/8"			8"x8"								UPPER DK
240		903	F 108	7/8" 1 1/2"			8"								UPPER DK

SHEET NO. 27 △B^{2}

DK { CABIN
UPPER
MAIN

LYKES - SEA BARGE CLIPPER

LOGS 211 TO 220

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
211		617 707	E/F 81	9/16" 3/4"			8"x8"								MN DK △B^{4}
212		707	E/F 83	7/16" 3/4"			↓								MN DK △B^{4}
213		707 717	E/F 87	7/16"			8"x8"								MN DK
214		306 316	E 40	11/16" 1 1/8"			8"								UPPER DK △B^{4}
215		316	E 42	13/16" 1 1/8"			↓								UPPER DK △B^{3}
216		307 317	E 40	11/16" 1 1/8"			↓								UPPER DK △B^{4}
217		317	E 42	13/16" 1 1/8"			8"								UPPER DK △B^{3}
218		606	E/F 71	5/8" 7/8"			8x8								CABIN DK △B^{1}
219		606	F 73 1/2	1 5/8" 7/8"			8"								CABIN DK △B^{1}
220		606	E 73 1/2	1 5/8" 7/8"			8"								CABIN DK △B^{1}

SHEET NO. 25 △B

SHELL

LYKES - SEA BARGE CLIPPER

LOGS 281 TO 290

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
281		817 903	J/H 106	1/2" 5/8"			8"×8"								
282		905 907	G 115	9/16" 5/8"			8"								
283		903 905	G 110	5/8"			8"								
284		817 903	G 106	1/2" 5/8"			8"								
285		816 902	S 106	1/2" 3/4"			8"								
286		902 904	S 110	1/2"			8"								
287		904 906	S/R 115	15/32" 1/2"			8"×8"								
288		816 902	R 106	1/2" 3/4"			8"								
289		902 904	R 110	1/2"			8"								
290		816 902	S/R 106.	1/2" 3/4"			8"×8"								

SHEET NO. 32 B2

SHELL/DK (MAIN)

LYKES - SEA BARGE CLIPPER

LOGS 261 TO 270

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
261		817 903	F/G 106	11/32" 7/8"			8"×4"								MAIN DK
262		903	F 108	7/8"			8"								MAIN DK
263		903 905	F/G 110	5/8" 7/8"			8"×4"								MAIN DK
264		903 905	G 110	5/8" 7/8"			8"								MAIN DK
265		905 907	F 115	5/8"			8"								MAIN DK
266		817 903	S 106	1/2" 3/4"			8"								SHELL
267		905 907	S/R 115	15/32" 1/2"			8×8								SHELL
268		903 905	S 110	1/2"			8"								SHELL
269		903 905	R 110	1/2"			8"								SHELL
270		903 905	S/R 110	1/2"			8"×8"								SHELL

SHEET NO. 30 B2

SHELL

LYKES - SEA BARGE CLIPPER

LOGS 271 TO 280

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
271		817 903	R 106	1/2" 3/4"			8"								
272		817 903	S/R 106	1/2" 3/4"			8"×8"								
273		905 907	Q/P 115	15/32" 1/2"											
274		903 905	Q/P 110	1/2"											
275		817 903	Q/P 106	1/2" 3/4"											
276		905 907	K/J 115	5/8" 9/16"											
277		903 905	K/J 110	5/8"											
278		817 903	K/J 106	1/2" 5/8"											
279		905 907	J/H 115	9/16" 5/8"											
280		903 905	J/H 110	5/8"											

SHEET NO. 31 B2

CABIN
MAIN DK

LYKES - SEA BARGE CLIPPER

LOGS 251 TO 260

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp		req. insp length	initial insp.	results			date repairs rec'd.	date repairs insp.	box no.	remarks
					RT	UT			weld rej.	weld rej.	G.D. acc.				
251		903 905	E/F 110	7/16" 5/8"			8"×4"								CABIN DK
252		903 905	E/F 110	7/16" 5/8"			8"								CABIN DK
253		905 907	E 115	7/16"			8"								CABIN DK
254		816 902	F/G 106	11/32" 7/16" 7/8"			8"×4"								MAIN DK
255		816 902	F/G 106	11/32" 7/8"			8"×4"								MAIN DK
256		902	F 108	7/8"			8"								MAIN DK
257		902 904	F/G 110	5/8" 7/8"			8"×4"								MAIN DK
258		902 904	G 110	5/8" 7/8"			8"								MAIN DK
259		904 906	F 115	5/8"			8"								MAIN DK
2		817 903	F/G 106.	11/32" 7/16" 7/8"			8"×4"								MAIN DK

SHEET NO. 29

GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO. 241-S29-08-01 GD NO. 30184-01-X1 SH 29-32 OF 34 FRAME ① 2 3 4

GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO. 241-S29-08-01 GD NO. 30184-01-X1 SH. 33-34 OF 34 FRAME ① 2 3 4

LYKES - SEA BARGE CLIPPER

SHELL

LOGS 301 TO

log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp RT	type of insp UT	req. insp length	initial insp.	results weld rej.	results weld rej.	results G.D. acc.	date repairs rec'd.	date repairs insp.	box no.	remarks
301		902 904	G 110	5/8"			8"								
302		904 906	G 115	9/16" 5/8"			8"								
303		902 904	S/R 110	1/2"			8"×8"								
304		616 706	P 81	13/16" 7/8"			9"								
305		606 616	P 75	13/16"			9"								
306		517 607	P 69	13/16"			9"								
307		516 606	P 69	13/16"			9"								
308		607 617	P 75	13/16"			9"								
309		617 707	P 81	13/16" 7/8"			9"								

SHEE

LYKES - SEA BARGE CLIPPER

SHELL

LOGS 291 TO 300

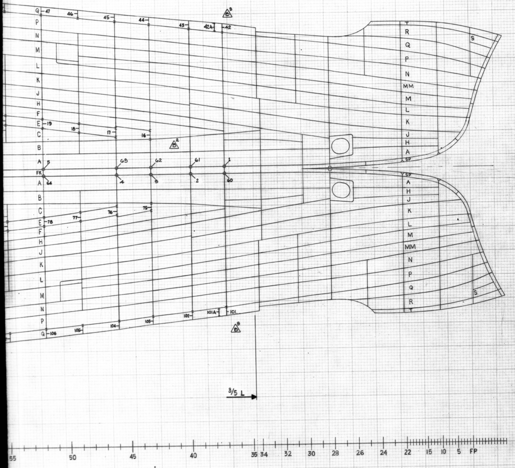
log no.	date rec'd.	unit no.	location strake/fr.	plate thick	type of insp RT	type of insp UT	req. insp length	initial insp.	results weld rej.	results weld rej.	results G.D. acc.	date repairs rec'd.	date repairs insp.	box no.	remarks
291		816 902	Q/P 106	1/2" 3/4"			8"×8"								
292		902 904	Q/P 110	1/2"											
293		904 906	Q/P 115	15/32" 1/2"											
294		816 902	K/J 106	1/2" 5/8"											
295		902 904	K/J 110	5/8"											
296		904 906	K/J 115	5/8" 9/16"											
297		816 902	J/H 106	1/2" 5/8"											
298		902 904	J/H 110	5/8"											
299		904 906	J/H 115	9/16" 5/8"			↓								
300		816 902	G 106	1/2" 5/8"			8"								

SHEET NO. 33

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-529-08-02 GD NO. 30184-01×2 FRAME ① 2 3 4

M.A. DWG NO. 241-529-08-02

Q div. DWG NO. 30184-01×2



ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. PLAN APPVD IN ACCORD WITH J.J. HENRY LTR 5589/S29/AHS-61-70 DATED 2-12-70		2/26/70			LTR	2/10/70
	B	1. ADDED INSPECTION LOG No's 266 THRU 303 IN CANTILEVER AREA TO SUIT SHIP SPECIFICATIONS. 2. REVISED LOCATION OF INSPECTION LOG No's 2, 3 & 4 FROM STBD TO PORT & No's 61, 62 & 63 FROM PORT TO STBD TO SUIT PLAN #30311-101×1. 3. ADD INSP LOG No's 42A & 101A AROUND FR 37. SOURCE: ITEM #1 & 3 = DESIGN DEVELOPMENT ITEM #2 = PLAN CORRECTION.		12/15/70			IRM 71	DTD Dec 70
	C	1. LOG # 304, 305 & 307 P & 306, 308 & 309 S ADDED SOURCE:- TO SUIT SPECIAL WELDING SEQUENCE # 772	EMPL					

RESERVATIONS

REVISIONS	O	A	B	C
TO	11 14 9	2 27 0	12 15 0	
LYKES			1	
M.A.(WASH)			–	
M.A.(YARD)	1	1	1	
J.J.HENRY(YARD)	1	1	1	
J.J.HENRY(HOME)			1	
ABS	1	1	1	
USCG	1	1	1	
USPHS			–	
Reed 899	1	1		
TPS-866	1	1		
871	3	4	4	
872			2	
873				
874				
875				
876			1	
865	1	1		
LH 868			2	
TOTAL NRO'S FS			15	
TOTAL NRO'S HS		11		
TOTAL RO	10			

SHOP ORDER	REV	DATE
30212	O	11-13-9
30212	A	3-4-0
"	B	12-21-0

DEPT	QTY FS	QTY HS
800		
820		
826		
829	6	
830		
841		
842		
843	4	
844		
899		
LIBRARY	3	
851	3	
852	3	
853	4	
TOTAL	25	

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

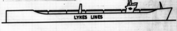
GENERAL NOTES

1. THIS PLAN IS TO BE USED IN CONJUNCTION WITH REF No 1.
2. ULTRASONIC INSPECTION OF STRUCTURAL WELDS WILL BE THE NORMAL INSPECTION METHOD; RADIOGRAPHIC INSPECTION WILL BE PERFORMED ONLY IN CASES IN WHICH ULTRASONIC INSPECTION IS IMPRACTICAL OR WHEN REQUESTED SPECIFICALLY BY THE OWNER OR REGULATORY BODIES.
3. WHEN SUBMITTING WELDS FOR NDT PREFIX THE LOG NUMBER WITH THE LETTERS U.T. (OR R.T. IF REQ'D.)
4. ACCEPTANCE STANDARDS FOR WELD INSPECTIONS TO BE IN ACCORDANCE WITH THE FOLLOWING QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES:
   ULTRASONIC INSPECTION - QC 5.10
   RADIOGRAPHIC INSPECTION - QA 5.2

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
C 5-8-73
C 11-8-73

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
5	SHELL EXP AFT 64 ABV LOWER DK	30351-25×4	241-511-01-04
4	SHELL EXP FWD 64 ABV LOWER DK	30351-25×3	241-511-01-03
3	SHELL EXP AFT 64 BEL LOWER DK	30351-25×2	241-511-01-02
2	SHELL EXP FWD 64 BEL LOWER DK	30351-25×1	241-511-01-01
1	N.D.T. LOG BOOK	30184-01×1	241-529-08-01

REFERENCES

Q div DWG NO. 30184-01×2

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN PFA
DSGNR R.C. JONES
SUPV
ENGR AFT / M.K.

NON DESTRUCTIVE TESTING OF SHELL PLATING

APPROVED DATE 11/12/9
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS REVIEWED 12-23-69
USCG EXAMINED 12-12-69
USPHS Not Req'd

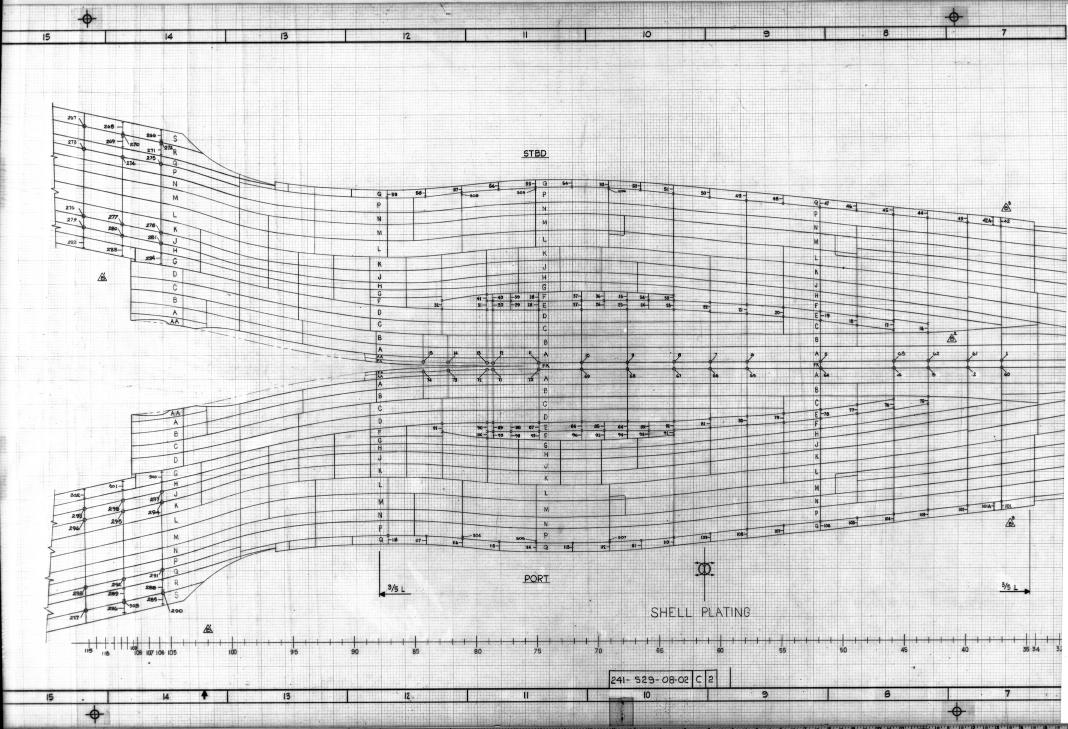
CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-529-08-02	C

SCALE 1/16" = 12"
SHEET 1 OF 1

FIRST NO. USED: 1
LAST NO. USED: ~~118~~ ~~303~~ 309
Nos NOT USED:
119-265

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

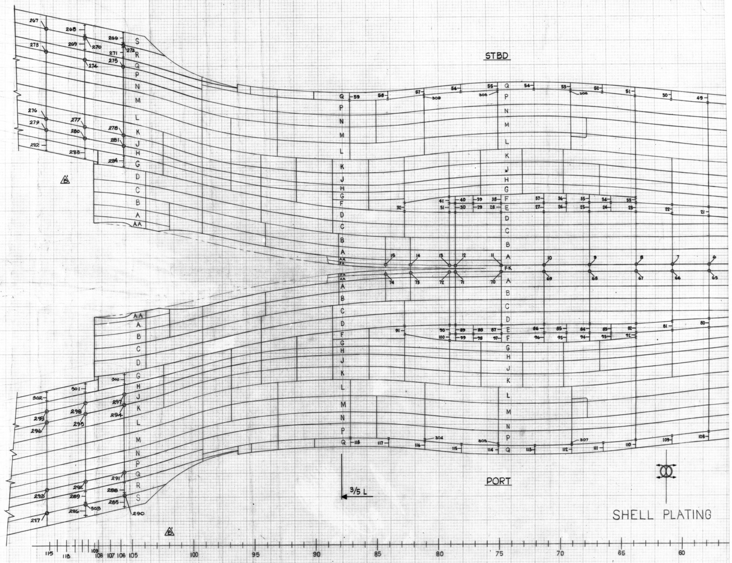
AREA = 18.0 SQ FT


15
14
13
12
11
10
9
8
7
STBD
PORT
S
R
Q
P
N
M
L
K
J
H
G
F
E
D
C
B
A
AA
FK
3/5 L
3/5 L
SHELL PLATING
115
110
108
107
106
105
100
95
90
85
80
75
70
65
60
55
50
45
40
35
34
241- S29-08-02
C
2

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-S29-08-02 GD NO. 30184-01 × 2 FRAME 1 ② 3 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-S29-08-02 GD NO. 30184-01 × 2 FRAME 1 2 ③ 4


STBD
PORT
3/5 L
S
R
Q
P
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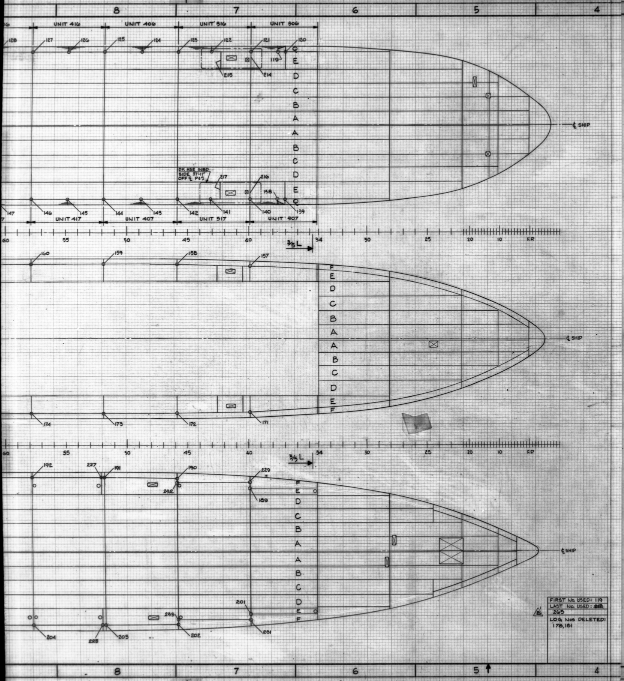
M
L
K
J
H
G
F
E
D
C
B
A
AA
FK
115
113
109
108
107
106
105
100
95
90
85
80
75
70
65
60

SHELL PLATING

241- S29- 08-02	C	2

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-529-08-03 GD NO. 30184-01×3 FRAME ① 2 3 4


UNIT 416
UNIT 406
UNIT 316
UNIT 306
UNIT 417
UNIT 407
UNIT 317
UNIT 307
℄ SHIP
DK HSE INBD SIDE 37-11 OFF ℄ P65
FR
3/5 L
F
E
D
C
B
A
60
55
50
45
40
34
30
25
20
10
128
127
126
125
124
123
122
121
120
119
215
214
217
216
138
139
140
141
142
143
144
145
146
147
157
158
159
160
171
172
173
174
189
190
191
192
201
202
203
204
227
228
229
231
232
233

FIRST No. USED: 119
LAST No. USED: ~~217~~ 265
LOG Nos DELETED: 178,181

RESERVATIONS

GENERAL NOTES

1. THIS PLAN IS TO BE USED IN CONJUNCTION WITH REF No. 1.
2. ULTRASONIC INSPECTION OF STRUCTURAL WELDS WILL BE THE NORMAL INSPECTION METHOD, RADIOGRAPHIC INSPECTION WILL BE PERFORMED ONLY IN CASES IN WHICH ULTRASONIC INSPECTION IS IMPRACTICAL OR WHEN REQUESTED SPECIFICALLY BY THE OWNER OR REGULATORY BODIES.
3. WHEN SUBMITTING WELDS FOR NDT PREFIX THE LOG NUMBER WITH LETTERS U.T. (OR R.T. IF REQ'D)
4. ACCEPTANCE STANDARDS FOR WELD INSPECTIONS TO BE IN ACCORDANCE WITH THE FOLLOWING QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES:
   ULTRASONIC INSPECTION - QC 5.10
   RADIOGRAPHIC INSPECTION - QA 5.2
5. INSPECTION OF DECK BUTTS AT HATCH CORNERS ARE TO BE TAKEN AS NEAR TO THE CORNER AS POSSIBLE.

ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	PLAN APPVD IN ACCORD WITH JJ HENRY LTR 5589/529/AHS-61-70 DATED 2-12-70	2/27/70		—	—		2/12/70
	B	1. DELETED INSPECTION LOG No's 178 & 181 AND ADDED LOG No's 218 THRU 265. SOURCE: ITEM #1 = DESIGN DEVELOPMENT	12/15/70		—			

REVISIONS	O	A	B	C
TO	11/12/9	2/27/0	12/15/0	
LYKES			1	
M.A.(WASH)			—	
M.A.(YARD)	1	1	1	
J.J.HENRY(YARD)	1	1	1	
J.J.HENRY(HOME)			1	
ABS	1	1	1	
USCG	1	1	1	
USPHS				
Reed 899	1	1		
TPS-866	1	1		
871	22	4	4	
872	6		2	
873				
874	1			
875				
876	2		1	
865	1	1		
LIA 868			2	
TOTAL NRO'S FS	38		15	
TOTAL NRO'S HS		11		
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FB	QTY HS
30212	0	11-13-9	800		
30212	A	3-1-0	HP 820		
11	B	12-22-0	826		
			829	6	
			830		
			841		
			842		
			843	4	
			844		
			899		
			LIBRARY	3	
			851	3	
			852	3	
			853	4	
			TOTAL	25	

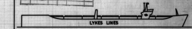
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
B 5-10-73
B 11-9-73

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
7.	MAIN DECK PLATING FWD FR 64	30343-03×1	241-511-18-23
6.	MAIN DECK PLATING AFT FR 64	30343-03×2	241-511-18-24
5.	CABIN DECK PLATING FWD FR 64	30343-04×1	241-511-18-25
4.	CABIN DECK PLATING AFT FR 64	30343-04×2	241-511-18-35
3.	UPPER DECK PLATING FWD FR 64	30343-05×1	241-511-18-26
2.	UPPER DECK PLATING AFT FR 64	30343-05×2	241-511-18-27
1.	NON DESTRUCTIVE TESTING LOG BOOK	30184-01×1	241-529-08-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO. 30184-01×3

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN S ENDRIS
DSGNR R.C. JONES
SUPV
ENGR AET / M.K.

NON DESTRUCTIVE TESTING OF UPPER DECK, CABIN DECK AND MAIN DECK

APPROVED DATE 11/12/9
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS REVIEWED 12-23-69
USCG EXAMINED 12-12-69
USPHS Not Req

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-529-08-03	B

SCALE: 1/16" = 12" SHEET 1 OF 1

AREA = 16.5 SQ FT

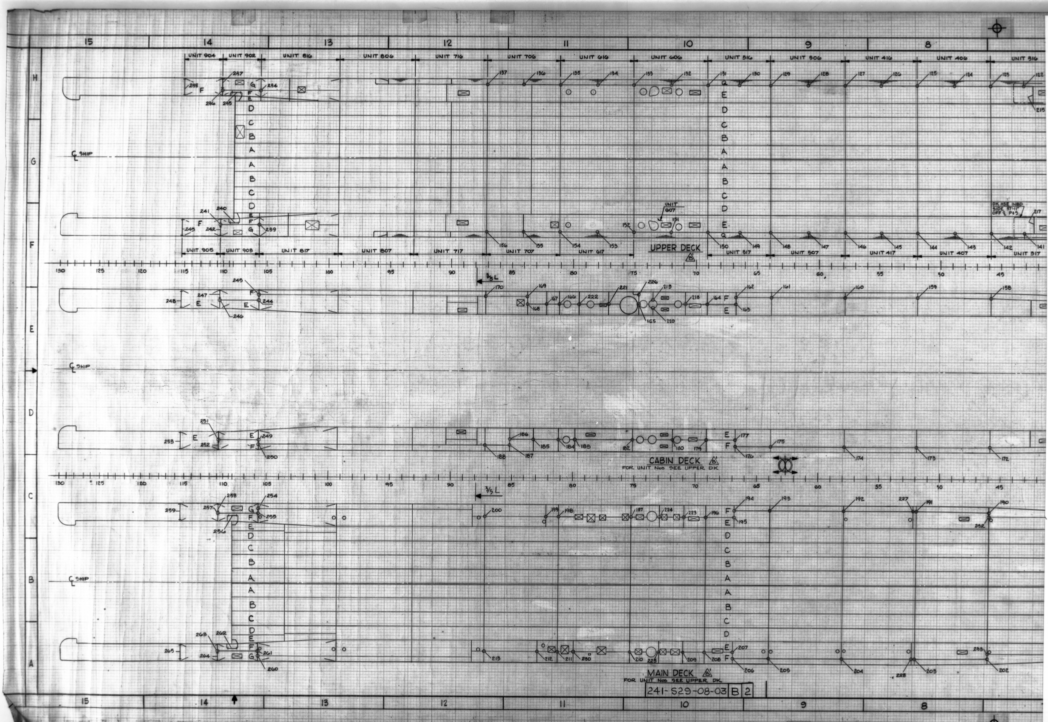
DWG. NO. 30184-01×3

M.A. DWG NO. 241-529-08-03

Q div DWG NO.

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO.241-S29-08-03 GD NO.30184-01x3 FRAME 1 ② 3 4


15
14
13
12
11
10
9
8
UNIT 904
UNIT 902
UNIT 816
UNIT 806
UNIT 716
UNIT 706
UNIT 616
UNIT 606
UNIT 516
UNIT 506
UNIT 416
UNIT 406
UNIT 316
UNIT 905
UNIT 903
UNIT 817
UNIT 807
UNIT 717
UNIT 707
UNIT 617
UNIT 607
UNIT 517
UNIT 507
UNIT 417
UNIT 407
UNIT 317
℄ SHIP
DK HSE INBD SIDE 37-11 OFF ℄ P&S
UPPER DECK B
3/5 L
CABIN DECK B
FOR UNIT Nos SEE UPPER DK
MAIN DECK B
FOR UNIT Nos SEE UPPER DK
241-S29-08-03 B 2
130
125
120
115
110
105
100
95
90
85
80
75
70
65
60
55
50
45
H
G
F
E
D
C
B
A

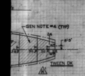
FREE STANDING TANKS

NAME OF TANK	TEST
STERN TUBE L.O DRAIN TANK	BY VENDOR
RUDDER BEARING L.O. HEAD TANK	↓
DEAERATING FEED TANK	↓
L.O. DAY TANK	↓
KEROSENE TANK	↓
FRESH WATER DRAIN COLL TANK	↓
CONTAM. DRAIN INSP TANK	↓
HYDRAULIC STORAGE TANK	↓
FRESH WATER SERVICE TANK	↓
BOILER COMPOUND FEED TANK	PER PLAN 30201-90x11
STEERING GEAR OIL TANK	BY VENDOR
VACUM FRESH WATER CONT. TANK	↓
VACUM BILGE & BALLAST CONT TANK	↓
STERN TUBE L O HEAD TANK	↓
~~SEWAGE HOLDING TANK~~	↓
GARBAGE DISPOSAL TANK	↓
GRAVITY TANK	↓
HYDRAULIC STORAGE TANK	↓
DSTL PLANT ACID MIXING TANK	↓
SUPPLY & EXPANSION TANK	↓
OIL SUPPLY & EXP TANK	↓
HYD TANK FOR ANCHOR WINDLASS	↓

	NAME OF COMPT	TEST HEAD	REMARKS
B7	COFFERDAM	3'ABV MAIN DK	WATER TEST FR64-67
	COFFERDAM	3'ABV CABIN DK	WATER TEST FR107-109
	RES. FEED WATER	3'ABV MAIN DK	FR71-75(P)
B7	↓	↓	FR71-75(S)
	FUEL OIL OVFL P.	3'ABV CABIN DK	↓ FR76-81(P)
	COFFERDAM	3'ABV MAIN DK	WATER TEST FR76-82
B7	COFFERDAM	↓	WATER TEST FR67-70
	BALLAST TANK #8P	3'ABV MAIN DK	WATER TEST
	#8℄		
	#8S	↓	
	#9P	3'ABV CABIN DK	
	#9℄		
	#9S		
	#10P		
B2			
	#10S		
	#11P		
	#11S		
	#12P		
	↓ #12S	↓	↓
E3	L.O STOR. TANK	GEN NOTE #10	~~WATER TEST FR80-81~~
E3	L.O. SETT TANK	↓	~~WATER TEST FR79-80~~
E2	L.O. SUMP TANK	TOP OF SUMP	WATER TEST FR81
	DIST WATER	3' ABV TANK	WATER TEST FR80-82
	COFFERDAM	3'ABV CABIN DK	WATER TEST FR82-99
E1	STABILIZER	3' ABV MN DK	WATER TEST FR67-70
B7	COFFERDAM	3'ABV MAIN DK	WATER TEST FR 70-76
B7	SLUDGE TANK	↓	↓ FR 76-79
F1	VOID (P) FR 67-70	—	HOSE TEST
F1	VOID (S) FR 67-70	—	HOSE TEST
F1	RUDDER HORN	—	GEN NOTE #7
F1	L O SLUDGE TANK 78½-79	TOP OF TANK	WATER TEST
F1	DIESEL OIL SERV TANK	TOP OF TANK	WATER TEST

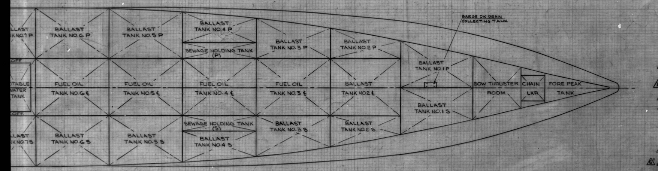
	NAME OF COMPT	TEST HEAD	REMARKS
	FORE PEAK TANK	3'ABV MAIN DK	WATER TEST
E2	CHAIN LOCKER & SUMP TANK	TOP OF LKR	
	BALLAST TANK #1 P	3'ABV MAIN DK	
	#1S		
	#2P		
	#2℄		
	#2S		
	↓ #3P	↓	
B3	FUEL OIL TANK #3℄	3'ABV MAIN DK	
	BALLAST TANK #3S	3'ABV MAIN DK	
	#4P		
	↓ #4S	↓	
G1	SEWAGE HOLDING P	TOP OF VENT	
	↓ S	↓	
B3	FUEL OIL TANK #4℄	3'ABV MAIN DK	
	BALLAST TANK #5P	3'ABV MAIN DK	
	↓ #5S	↓	
B3	FUEL OIL TANK #5℄	3'ABV MAIN DK.	
	BALLAST TANK #6P	3'ABV MAIN DK	
	↓ #6S	↓	
B3	FUEL OIL TANK #6℄	3'ABV MAIN DK	
	BALLAST TANK #7P	3'ABV MAIN DK	
	↓ #7S		
	POT. WATER TANK	↓	↓
	VOID FR 108-109	—	2# AIR TEST
G1	VOID FR 101-101½	SKEG VOID	2# AIR TEST
G	DRAIN TANK 70-70½P	TOP OF TANK	WATER TEST
F1	SKEG AREA	—	VISUAL/OR 3# AIR
	COFFERDAM FR 22-24	—	HOSE TEST SHELL
	DRAIN TANK FR 31-32	—	WATER TEST
G	DRAIN TANK 100½-101℄	LOWER DECK	WATER TEST
H4	COFFERDAM (P) FR128-130	TOP OF TANK	WATER TEST
H4	COFFER DAM (S) FR 128-130	TOP OF TANK	WATER TEST

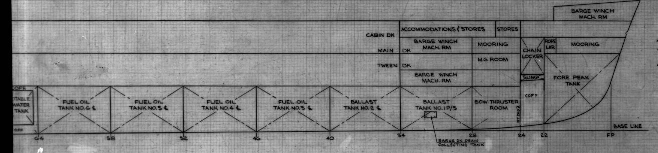
C1 APPROVED BY J.J. HENRY LTR 55 B9/S29/AHS-366-69. 10/20/69


GEN NOTE #4 (TYP)
24
TWEEN DK
H4

RESERVATIONS

E 1. ~~STABILIZER TANK PENDING DEVELOPMENT~~


BARGE DK DRAIN COLLECTING TANK
BALLAST TANK NO.7 P
BALLAST TANK NO.6 P
BALLAST TANK NO.5 P
BALLAST TANK NO.4 P
SEWAGE HOLDING TANK (P)
BALLAST TANK NO.3 P
BALLAST TANK NO.2 P
BALLAST TANK NO.1 P
POTABLE WATER TANK
COFF
FUEL OIL TANK NO.6 ℄
FUEL OIL TANK NO.5 ℄
FUEL OIL TANK NO.4 ℄
FUEL OIL TANK NO.3 ℄
BALLAST TANK NO.2 ℄
BOW THRUSTER ROOM
CHAIN LKR
FORE PEAK TANK
BALLAST TANK NO.1 S
BALLAST TANK NO.7 S
BALLAST TANK NO.6 S
BALLAST TANK NO.5 S
SEWAGE HOLDING TANK (S)
BALLAST TANK NO.4 S
BALLAST TANK NO.3 S
BALLAST TANK NO.2 S


BARGE WINCH MACH. RM
ACCOMMODATIONS & STORES
STORES
CABIN DK
MAIN DK
TWEEN DK
BARGE WINCH MACH. RM
MOORING
M.G. ROOM
BARGE WINCH MACH. RM
CHAIN LOCKER
ROPE LKR
MOORING
SUMP
FORE PEAK TANK
COFF
COFF
POTABLE WATER TANK
FUEL OIL TANK NO.6 ℄
FUEL OIL TANK NO.5 ℄
FUEL OIL TANK NO.4 ℄
FUEL OIL TANK NO.3 ℄
BALLAST TANK NO.2 ℄
BALLAST TANK NO.1 P/S
BOW THRUSTER ROOM
BARGE DK DRAIN COLLECTING TANK
BASE LINE
64
58
52
46
40
34
28
24
22
FP

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
10E 7H	B	PLAN VIEW & PROFILE TO SUIT C & A. 6. RESERVE FEED WATER TANK BET FR 71 & 75 CORRECTED TO SHOW TWO TANKS. 7. LIST OF TANKS MODIFIED TO SUIT ITEMS 5 & 6.						
4-H 3-D 3-C	C	1. ADDED ABS APPROVAL LTR. 2. REVISED GEN. NOTE #5 3. ADDED "WHERE APPROVED" TO GEN. NOTE #13 SOURCE: ITEM #1 DES. DEV. ITEM 2&3 JJ HENRY LTR 10/20/9	C.O.B		—	—	LTR 10/20/69	
3-D	D	1. REVISED GEN NOTE #5 TO COMPLY WITH SPEC 14-2 SOURCE: DES DEV			—	—	—	
1E 8F 9-A, 9-C 8C 8C 13A 13-G	E	1. REVISED ARR OF STABILITY TANK TO SUIT LATEST C&A. TABLE OF TANKS REV TO SUIT. THIS RELEASES ANDC-S479-LKS 2. CORR TEST HEAD FOR L.O. SUMP. & CHAIN LKR & SUMP 3 REV TEST REQ FOR L.O. STOR. & L.O SETT TANKS 4. INDICATED INACCESSIBLE VOID IN WAY OF BOX GIRDER FR109	WPC	1/5/71		—		
	F	1. PLAN REVISED TO INCLUDE MISC BUILT IN TANKS & VOIDS & NEW LIST OF FREE STANDING TANKS. THIS RELEASES ANDC S-0622.	AD	3/18/71		—		
3C, 6G, 6F 3B 9-15 & E-H 6F 6F	G	1. GEN NOTE 7 & COMPT TABLE REV. 2. ADDED GEN NOTE #14. 3. ADDED KEY PLANS LOCATING WT BULKHEADS, TOILETS & SHOWERS. 4. IN COMPT TABLE COFFERDAM FR 22-24 REVISED TEST FROM "NO TEST" TO "HOSE TEST SHELL". 5. IN COMPT TABLE DRAIN TANK FR 31-32 TEST REVISED FROM "NO TEST" TO "WATER TEST." SOURCE: ITEM #1 DES DEV, ITEM #2 & 3 ABS LTR FILE #T-8-2 OF 10-7-71, ITEM #4 & 5 TO SUIT OWNERS COMMENTS IRM DATED 10-22-71	LH	10/22/71				
VARIOUS	H	1. KEY PLANS: CALL OUTS & LOCATIONS ADDED FOR AREAS TO BE HOSE TESTED. 2. REFERENCE TO GEN NOTE #7 ADDED TO ELEV IN WAY OF STERN TUBE & RUDDER 3. REFERENCE TO SEWAGE HOLDING TANK DELETED FROM LIST OF FREE-STANDING TANKS 4. COFFERDAM 128-130 P/S CHG'D TO WATER TO AGREE WITH TEST FORM 270-2. SOURCE: ITEMS #1-4 PLANNING REQUEST TO CLARIFY TEST IMPLEMENTION FOR 19 & 20	MC B	2/4/72		—		

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
4D 4D	A	1. PLAN REV "O" APPRVD BY J.J. HENRY LTR FILE 5589/S11/S48-8/AHS-234-69 DATED JULY 23, 1969 SUBJECT TO COMMENT NOTED BELOW. 2. MODIFIED GEN NOTES 2,3,4,5,6 & 7. 3. ADDED GEN NOTES 8-12 INCL. SOURCE ITEMS 2 & 3 TO SUIT ITEM 1	LD		—	—	LTR 7-29-9	
6B 7G 6G	B	1. CORRECTED INDIC OF CABIN DK AT FR 34. 2. DELETED #10 ℄ BALLAST TANK FROM LIST OF TANKS. 3. CHGD TEST HEAD FOR FUEL OIL TANKS, #3,4,5 & 6 ℄ FROM 3'-0" ABV CABIN DK TO 3'-0" ABV MN DK. SOURCE ITEM 1 & 2 CORR ACTION ITEM 3 TELCON MR MIRTO J.J. HENRY SER NO. 320A/S11/S48-9/AET/MK/RAJ 54463 7/31/69 4. GEN NOTE 13 ADDED. 5. CORRECTED INDIC OF COFFERDAMS BET FR 64 & 82 IN	LD	R.J.			LTR 10-20-69	

REVISIONS	O	A	B	C	D	E	F	G	H		
TO			10/2/9	10/30/9	11/25/9	1/15/1	3/18/1	10/22/1	2/4/2		
LYKES						1	1	1	1		
M.A.(WASH)						1	1	1	1		
M.A.(YARD)			1	1	1	1	1	1	1		
J.J.HENRY(YARD)			1	1	1	1	1	1	1		
J.J.HENRY(HOME)						1	1	2	2		
ABS YD			1	1	1	1	1	1	1		
USCG YD			1	1	1	1	1	1	1		
USPHS							—				
P. BRACKEN 899									1		
871			5	6	6	5	5	9	5		
872			6	6	6	2	2	—			
873											
874			1	1	1						
875											
876				2	2	1	1	—			
865			1	1	1						
TPS 866			1	1	1			1	1		
L. REED P99 MOB			1	1	1						
LIA BLDG 107						2	1	1	1		
TOTAL NRO'S FS			20	22	22	17	16				
TOTAL NRO'S HS								19	16		
TOTAL RO											

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	B	10-3-9	800	4	
		✓	820	5	
30212	C	10-31-9	826	12	
30212	D	11-26-9	829		
"	E	1-21-1	830	7	
"	F	3-19-1	841		
	G	10-22-1	842		
	H	2/7/2	843		
			844	5	
			899		
		✓	LIBRARY	3	
			840	1	
			812	1	
				1	
			TOTAL	39	

GENERAL NOTES

1. TESTING THROUGHOUT SHALL BE IN ACCORD WITH ABS RULES OF 1968.
2. A2 PRESSURE FOR ALL HOSE TESTING SHALL BE NOT LESS THAN 30 PSI & THE NOZZLE SHALL BE NO MORE THAN 10 FT FROM THE OBJECT BEING TESTED.
3. A2 DRAIN WELLS NOT TESTED AS PART OF A TANK BOUNDRY SHALL BE TESTED BY FILLING WITH WATER.
4. A2 WT BHDS & DKS NOT TESTED BY TANK PRESSURE ARE TO BE HOSE TESTED.
5. D1 PRIMING OR PAINTING OF WELDS IN COMPARTMENTS OR TANKS REQUIRED TO BE TESTED SHALL BE KEPT TO A MINIMUM AND SUBJECT TO APPROVAL UNTIL AFTER COMPLETION OF SUCH TESTS. ALL PIPING & OPENINGS IN TESTED SURFACES ARE TO BE PROVIDED WITH PERMANENT PIPING CONNECTIONS, BLANK FLANGES OR COVERS PRIOR TO TESTING. ITEMS WELDED TO TOP OR EXT SURFACE OF TESTED COMPTS WHICH DO NOT PENETRATE MAY BE WELDED ON AFTER TEST
6. A2 REFRIG SPACE BHDS & DKS SHALL BE HOSE TESTED BEFORE APPLICATION OF INSULATION.
7. G1 A2 THE RUDDER WELDMENT TO BE TESTED TO 5# PSI, THE SKEG, RUDDER HORN & STERN TUBE VOID TO 3# PSI BEFORE APPLICATION OF PRESERVATIVE.
8. A3 SPACES SUBJECT TO WATER OR HUMIDITY SUCH AS GALLEYS OR TOILET & SHOWERS SHALL BE FLOOD TESTED TO A HEIGHT OF THE SILL OR COAM.
9. ALL WINDOWS, SIDEPORTS & ALL WT ENCLOSURES SUCH AS VENT COVERS, DOORS, HATCHES, SCUTTLES ETC SHALL BE HOSE TESTED.
10. MISC TANKS NOT LISTED SHALL BE TESTED BY FILLING TO THE TOP OF THE OVERFLOW.
11. NO HYDROSTATIC OR HOSE TESTING SHALL BE CONDUCTED IN AMBIENT TEMP BELOW 20°F UNLESS SPECIFICALLY APPRVD BY OWNERS REP.
12. NO HYDROSTATIC TESTS SHALL BE PERFORMED UNTIL ALL STRUCT WORK INCLUDING ANY STRUCT ATTACHMENTS WHICH MIGHT AFFECT THE TIGHTNESS OF THE STRUCTURE IS COMPLETE.
13. B4 C3 THE REQUIREMENTS FOR HOSE TESTING MAY BE MODIFIED FOR DECKS AND BULKHEADS IN LIVING SPACES, WHERE CERTAIN ITEMS AFFECTING WATER TIGHTNESS MAY REQUIRE TO BE FITTED AFTER INSTALLATION OF SOME OF THE FINISHED TRIM, *WHERE APPROVED.*
14. G2 ALL STRUCTURAL TANKS MAY BE AIR TESTED TO A PRESSURE OF 3# P.S.I. IN LIEU OF HYDRO TESTING PRIOR TO LAUNCH, EXCEPT THE DOUBLE BOTTOM TANKS. DOUBLE BOTTOM TANKS WILL BE HYDROSTATICALLY TESTED IN ACCORD WITH NOTE #1. ALL TANKS AIR TESTED PRIOR TO LAUNCH ARE TO BE HYDRO TESTED AND PAINTED OUT WITH THE VESSEL AFLOAT.

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC	REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

MATERIAL SECTION SIGNATURE AREA

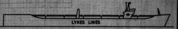
O	A	B	C	D	E	F	G	H
—	—	—						

DONE PLAN REVIEW COMPLETED
PROCESS ENG [illegible] DATE [illegible]
DESIGN ASSURANCE [illegible] DATE [illegible]

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
H 12-28-72

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30270-01x1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN J.R.S.
DSGNR L.D.
SUPV
ENGR /M.K.

TANK TESTING DIAGRAM

APPROVED DATE 6/12/9
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS 10-9-69
USCG Not Req'd
USPHS Not Req'd

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-529-08-07	H

SCALE 1/16"=1'-0" SHEET 1 OF 1

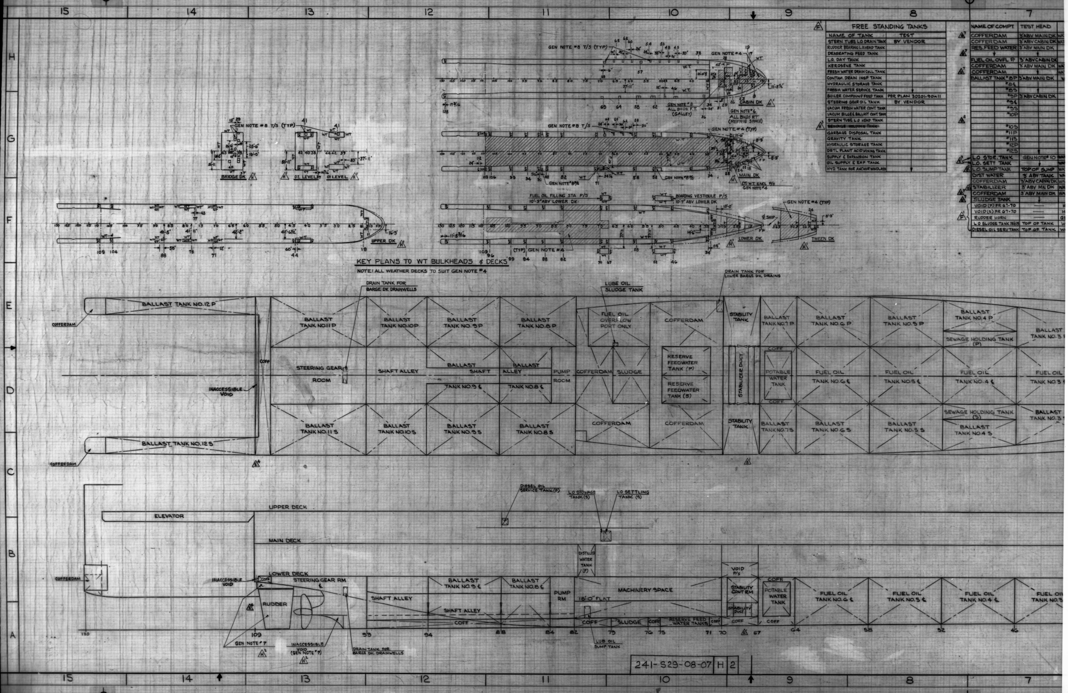
AREA = 16.3 SQ FT

Q div DWG NO. 30270-01x1

GENERAL DYNAMICS, QUINCY NOV, 1973
MA NO. 241-529-08-07 GD NO. 30270-01x1 FRAME ① 2 3 4 8X

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-529-08-07GD NO. 30270-01×1 FRAME 1 ② 3 4



15
14
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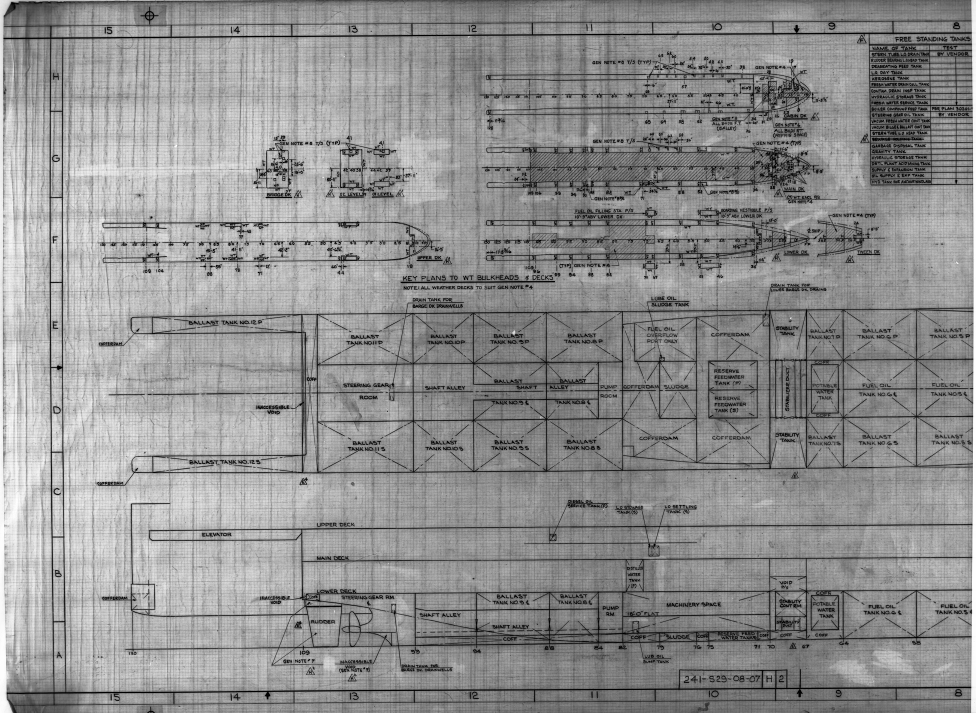
7
H
G
F
E
D
C
B
A
GEN NOTE #8 T/S (TYP)
GEN NOTE #4
CABIN DK
GEN NOTE #8 ALL BHDS F.T. (GALLEY)
GEN NOTE #6 ALL BHDS F.T. (REFRIG SPACE)
GEN NOTE #8 T/S
GEN NOTE #4 (TYP)
GEN NOTE #8½
MAIN DK
(7) WT ENCL P/S GEN NOTE #4
BRIDGE DK
02 LEVEL
01 LEVEL
FUEL OIL FILLING STA P/S 10'-9" ABV LOWER DK
BOARDING VESTIBULE P/S 10'-9" ABV LOWER DK
GEN NOTE #4 (TYP)
¢ SHIP
LOWER DK
TWEEN DK
UPPER DK
(TYP) GEN NOTE #4
KEY PLANS TO WT BULKHEADS & DECKS
NOTE: ALL WEATHER DECKS TO SUIT GEN NOTE #4
DRAIN TANK FOR BARGE DK DRAINWELLS
LUBE OIL SLUDGE TANK
DRAIN TANK FOR LOWER BARGE DK DRAINS
BALLAST TANK NO.12 P
COFFERDAM
BALLAST TANK NO.11 P
BALLAST TANK NO.10 P
BALLAST TANK NO.9 P
BALLAST TANK NO.8 P
FUEL OIL OVERFLOW PORT ONLY
COFFERDAM
STABILITY TANK
BALLAST TANK NO.7 P
BALLAST TANK NO.6 P
BALLAST TANK NO.5 P
BALLAST TANK NO.4 P
BALLAST TANK NO.3 P
SEWAGE HOLDING TANK (P)
COFF
STEERING GEAR ROOM
SHAFT ALLEY
BALLAST SHAFT TANK NO.9 ¢
BALLAST ALLEY TANK NO.8 ¢
PUMP ROOM
COFFERDAM
SLUDGE
RESERVE FEEDWATER TANK (P)
RESERVE FEEDWATER TANK (S)
STABILIZER DUCT
POTABLE WATER TANK
FUEL OIL TANK NO.6 ¢
FUEL OIL TANK NO.5 ¢
FUEL OIL TANK NO.4 ¢
FUEL OIL TANK NO.3 ¢
INACCESSIBLE VOID
BALLAST TANK NO.11 S
BALLAST TANK NO.10 S
BALLAST TANK NO.9 S
BALLAST TANK NO.8 S
COFFERDAM
COFFERDAM
STABILITY TANK
BALLAST TANK NO.7 S
BALLAST TANK NO.6 S
BALLAST TANK NO.5 S
SEWAGE HOLDING TANK (S)
BALLAST TANK NO.4 S
BALLAST TANK NO.3 S
BALLAST TANK NO.12 S
COFFERDAM
DIESEL OIL SERVICE TANK (P)
LO STOWAGE TANK (S)
LO SETTLING TANK (S)
UPPER DECK
ELEVATOR
MAIN DECK
DISTILLED WATER TANK (P)
LOWER DECK
VOID P/S
COFFERDAM
INACCESSIBLE VOID
STEERING GEAR RM ¢
BALLAST TANK NO.9 ¢
BALLAST TANK NO.8 ¢
PUMP RM
MACHINERY SPACE
STABILITY CONT RM
COFF
POTABLE WATER TANK
FUEL OIL TANK NO.6 ¢
FUEL OIL TANK NO.5 ¢
FUEL OIL TANK NO.4 ¢
FUEL OIL TANK NO.3
RUDDER
SHAFT ALLEY
SHAFT ALLEY
16'-0" FLAT
STABILITY DUCT
COFF
COFF
SLUDGE
COFF
RESERVE FEED WATER TANK P/S
COFF
COFF
COFF
130
109
99
94
88
84
82
79
76
75
71
70
67
64
58
52
46
GEN NOTE #7
INACCESSIBLE VOID (GEN NOTE #7)
DRAIN TANK FOR BARGE DK DRAINWELLS
LUB OIL SUMP TANK
241-529-08-07 H 2

FREE STANDING TANKS

NAME OF TANK	TEST
STERN TUBE L.O. DRAIN TANK	BY VENDOR
RUDDER BEARING L.O. HEAD TANK	↓
DEAERATING FEED TANK	↓
L.O. DAY TANK	↓
KEROSENE TANK	↓
FRESH WATER DRAIN COLL TANK	↓
CONTAM. DRAIN INSP TANK	↓
HYDRAULIC STORAGE TANK	↓
FRESH WATER SERVICE TANK	↓
BOILER COMPOUND FEED TANK	PER PLAN 30201-90×11
STEERING GEAR OIL TANK	BY VENDOR
VACUM FRESH WATER CONT. TANK	↓
VACUM BILGE & BALLAST CONT TANK	↓
STERN TUBE L.O HEAD TANK	↓
~~SEWAGE HOLDING TANK~~	↓
GARBAGE DISPOSAL TANK	↓
GRAVITY TANK	↓
HYDRAULIC STORAGE TANK	↓
DSTL PLANT ACID MIXING TANK	↓
SUPPLY & EXPANSION TANK	↓
OIL SUPPLY & EXP TANK	↓
HYD TANK FOR ANCHOR WINDLASS	↓

NAME OF COMPT	TEST HEAD
COFFERDAM	3' ABV MAIN DK
COFFERDAM	3' ABV CABIN DK
RES. FEED WATER	3' ABV MAIN DK
↓	↓
FUEL OIL OVFL P.	3' ABV CABIN DK
COFFERDAM	3' ABV MAIN DK
COFFERDAM	↓
BALLAST TANK #8P	3' ABV MAIN DK
#8¢	↓
#8S	↓
#9P	3' ABV CABIN DK
#9¢	↓
#9S	↓
#10P	↓
	↓
#10S	↓
#11P	↓
#11S	↓
#12P	↓
#12S	↓
L.O STOR. TANK	GEN NOTE # 10
L.O. SETT TANK	↓
L.O. SUMP TANK	TOP OF SUMP
DIST WATER	3' ABV TANK
COFFERDAM	3' ABV CABIN DK
STABILIZER	3' ABV MN DK
COFFERDAM	3' ABV MAIN DK
SLUDGE TANK	↓
VOID (P) FR 67-70	—
VOID (S) FR 67-70	—
RUDDER HORN	—
L O SLUDGE TANK 78½-79	TOP OF TANK
DIESEL OIL SERV TANK	TOP OF TANK

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-529-08-07GD NO. 30270-01x1 FRAME 1 2 ③ 4


15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A
KEY PLANS TO WT BULKHEADS & DECKS
NOTE: ALL WEATHER DECKS TO SUIT GEN NOTE #4
BRIDGE DK
02 LEVEL
01 LEVEL
UPPER DK
CABIN DK
MAIN DK
LOWER DK
TWEEN DK
GEN NOTE #8 T/S (TYP)
GEN NOTE #4 (TYP)
GEN NOTE #8 ALL BHDS F.T. (GALLEY)
GEN NOTE #6 ALL BHDS F.T. (REFRIG SPACE)
FUEL OIL FILLING STA P/S 10'-9" ABV LOWER DK
BOARDING VESTIBULE P/S 10'-9" ABV LOWER DK
(TYP) GEN NOTE #4
(7) WT ENCL P/S GEN NOTE #4
DRAIN TANK FOR BARGE DK DRAINWELLS
LUBE OIL SLUDGE TANK
DRAIN TANK FOR LOWER BARGE DK DRAINS
COFFERDAM
BALLAST TANK NO.12 P
BALLAST TANK NO.11 P
BALLAST TANK NO.10 P
BALLAST TANK NO.9 P
BALLAST TANK NO.8 P
FUEL OIL OVERFLOW PORT ONLY
COFFERDAM
STABILITY TANK
BALLAST TANK NO.7 P
BALLAST TANK NO.6 P
BALLAST TANK NO.5 P
COFF
STEERING GEAR ROOM
SHAFT ALLEY
BALLAST SHAFT
BALLAST ALLEY
PUMP ROOM
COFFERDAM
SLUDGE
RESERVE FEEDWATER TANK (P)
RESERVE FEEDWATER TANK (S)
STABILIZER DUCT
POTABLE WATER TANK
FUEL OIL TANK NO.6 ¢
FUEL OIL TANK NO.5 ¢
INACCESSIBLE VOID
TANK NO.9 ¢
TANK NO.8 ¢
BALLAST TANK NO.11 S
BALLAST TANK NO.10 S
BALLAST TANK NO.9 S
BALLAST TANK NO.8 S
COFFERDAM
COFFERDAM
STABILITY TANK
BALLAST TANK NO.7 S
BALLAST TANK NO.6 S
BALLAST TANK NO.5 S
BALLAST TANK NO.12 S
COFFERDAM
DIESEL OIL SERVICE TANK (P)
LO STOWAGE TANK (S)
LO SETTLING TANK (S)
ELEVATOR
UPPER DECK
MAIN DECK
LOWER DECK
DISTILLED WATER TANK (P)
VOID P/S
STABILITY CONT RM
STABILITY DUCT
COFFERDAM
INACCESSIBLE VOID
STEERING GEAR RM
RUDDER
SHAFT ALLEY
BALLAST TANK NO.9 ¢
BALLAST TANK NO.8 ¢
SHAFT ALLEY
PUMP RM
16'-0" FLAT
MACHINERY SPACE
COFF
SLUDGE
RESERVE FEED WATER TANK(S)
POTABLE WATER TANK
FUEL OIL TANK NO.6 ¢
FUEL OIL TANK NO.5 ¢
130
109
99
94
88
84
82
79
76
75
71
70
67
64
58
GEN NOTE #7
INACCESSIBLE VOID (GEN NOTE #7)
DRAIN TANK FOR BARGE DK DRAINWELLS
LUB OIL SUMP TANK
241-S29-08-07 H 2

FREE STANDING TANKS

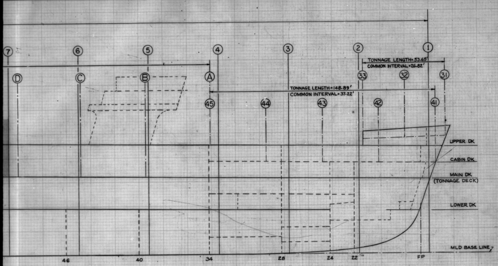
NAME OF TANK	TEST
STERN TUBE L.O. DRAIN TANK	BY VENDOR
RUDDER BEARING L.O. HEAD TANK	
DEAERATING FEED TANK	
L.O. DAY TANK	
KEROSENE TANK	
FRESH WATER DRAIN COLL TANK	
CONTAM. DRAIN INSP TANK	
HYDRAULIC STORAGE TANK	
FRESH WATER SERVICE TANK	
BOILER COMPOUND FEED TANK	PER PLAN 30201-
STEERING GEAR OIL TANK	BY VENDOR
VACUM FRESH WATER CONT. TANK	
VACUM BILGE & BALLAST CONT. TANK	
STERN TUBE L.O. HEAD TANK	
~~SEWAGE HOLDING TANK~~	
GARBAGE DISPOSAL TANK	
GRAVITY TANK	
HYDRAULIC STORAGE TANK	
DSTL PLANT ACID MIXING TANK	
SUPPLY & EXPANSION TANK	
OIL SUPPLY & EXP TANK	
HYD TANK FOR ANCHOR WINDLASS	

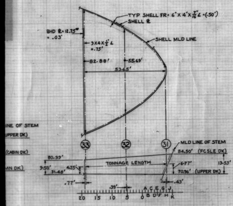
GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. S29-11-01 GD NO. 30210-09X1 FRAME ① 2 3 4

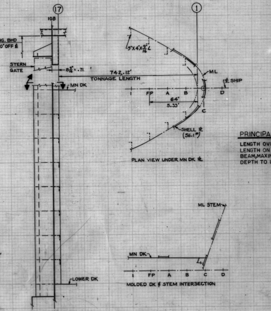
M.A. DWG NO. S29-11-01

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	1. PLAN APPD BY J.J. HENRY.	3/13/72				10 MAR 1972	W.C.


TONNAGE LENGTH = 53.65'
COMMON INTERVAL = 26.82'
TONNAGE LENGTH = 148.89'
COMMON INTERVAL = 37.22'
⑦ ⑥ ⑤ ④ ③ ② ①
Ⓓ Ⓒ Ⓑ Ⓐ
㉝ ㉜ ㉛
㊺ ㊹ ㊸ ㊷ ㊶
UPPER DK
CABIN DK
MAIN DK (TONNAGE DECK)
LOWER DK
MLD BASE LINE
46
40
34
28
24
22
FP


TYP SHELL FR = 6"X4"X7/16 L = (.50')
SHELL ℄
SHELL MLD LINE
BHD ℄ = 12.75" = .03'
3X4X1/2 L = .75'
82.88'
55.65'
53.65'
㉝ ㉜ ㉛
LINE OF STEM (UPPER DK)
(CABIN DK)
(MN DK)
MLD LINE OF STEM
84.50' (FCSLE DK)
80.99'
TONNAGE LENGTH
3.50'
71.49'
4.75'
6.77'
13.53'
70.96' (UPPER DK)
.77'
.39'
.43'
A C E G J
0 B D F H K
20 15 10 5

FORECASTLE TONNAGE


⑰
108
LONG. BHD 41'-0" OFF ℄
STERN GATE
8 9/16 = .71
742.12'
TONNAGE LENGTH
MN DK
LOWER DK
109 108
VERT STERN GATE FRAME LKG OUTBD
①
9"X4"X9/16 L
ML
℄ SHIP
FP A B C D
64"
5.33'
SHELL ℄ (56.1")
PLAN VIEW UNDER MN DK ℄
ML STEM
MN DK
I FP A B C D
MOLDED DK ℄ STEM INTERSECTION

LOCATION OF FWD & AFT POINTS FOR TONNAGE LENGTH
3/8"=1'-0"

PRINCIPAL DIMENSIONS

LENGTH OVERALL	873'-9"
LENGTH ON DESIGNED WATER LINE (EXCLUDING CANTILEVER)	740'-0"
BEAM, MAXIMUM MOLDED	105'-10"
DEPTH TO UPPER DECK, AT SIDE AMIDSHIPS	74'-9 5/8"

GENERAL NOTES

DESIGN ISSUE ONLY

REVISIONS	O	A	B	C								SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		3/13/72													800		
LYKES															820		
M.A.(WASH)															826		
M.A.(YARD)		1													829		
J.J.HENRY(YARD)		1													830		
J.J.HENRY(HOME)		1													841		
ABS															842		
USCG															843		
USPHS															844		
															899		
															LIBRARY		
871		3															
872																	
873																	
874																	
875																	
876																	
TP 866		1															
LIBRARY		3															
TOTAL NRO'S FS		10															
TOTAL NRO'S HS																	
TOTAL RO															TOTAL		

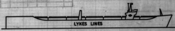
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G							

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
A 11-5-73

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
9	TONNAGE SECTIONS UNDER MAIN DECK	30210-09 X2	S29-11-02
8	C & A-FOCSLE, POOP DK & ABV	30211-03 X7	S16-01-07
7	C & A-GEN ARRGT UPPER DK	30211-03 X6	S16-01-06
6	C & A-GEN ARRGT CABIN DK	30211-03 X5	S16-01-05
5	C & A-GEN ARRGT MN DK	30211-03 X4	S16-01-04
4	C & A-LOWER DK & TWEEN DK	30211-03 X3	S16-01-03
3	C & A-TKS BELOW LOWER DK	30211-03 X2	S16-01-02
2	C & A-TOP OFF & INNER BOTTOM	30211-03 X1	S16-01-01
1	HULL OFFSETS	30220-01 X1	241-S5-00-02

REFERENCES

Q div DWG NO. 30210-09X1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR HAKULIN
SUPV
ENGR RKF

TONNAGE PROFILE
& MISC SECTS

APPROVED DATE 8/14/71
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	S29-11-01	A

SCALE 1/16"=1'-0" & AS NOTED SHEET 1 OF 1

APPROVAL LTR DATED
ABS NOT REQD LTR DTD 8-24-71
USCG NOT REQD
USPHS NOT REQD

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

S29-11-01 A 2

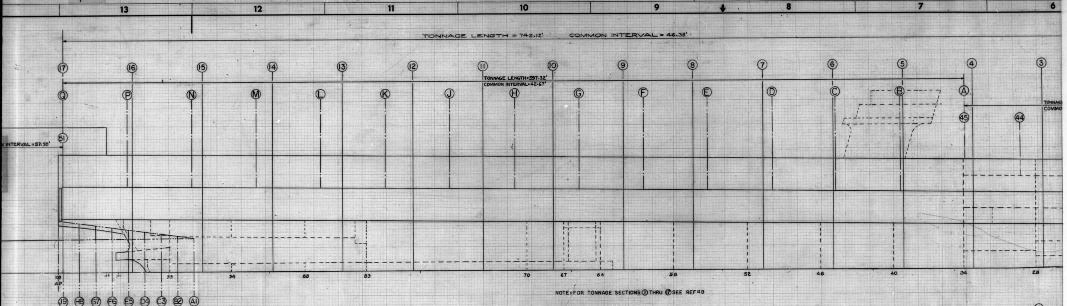
AREA = 33 SQ FT

DWG. NO. 30210-09 X1

Q div DWG NO. 30210-09 X1

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

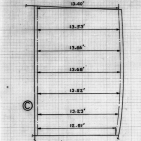
MA NO. S29-11-01 GD NO. 30210-09x1 FRAME 1 ② 3 4



13
12
11
10
9
8
7
6
TONNAGE LENGTH = 742.12' COMMON INTERVAL = 46.38'
⑰ ⑯ ⑮ ⑭ ⑬ ⑫ ⑪ ⑩ ⑨ ⑧ ⑦ ⑥ ⑤ ④ ③
TONNAGE LENGTH = 597.32'
COMMON INTERVAL = 42.67'
Ⓠ Ⓟ Ⓝ Ⓜ Ⓛ Ⓚ Ⓙ Ⓗ Ⓖ Ⓕ Ⓔ Ⓓ Ⓒ Ⓑ Ⓐ
(51)
(45)
(44)
INTERVAL = 57.98'
TONNAGE
COMMON
109
AP
104
99
94
88
83
70
67
64
58
52
46
40
34
28
(J9) (H8) (G7) (F6) (E5) (D4) (C3) (B2) (A1)

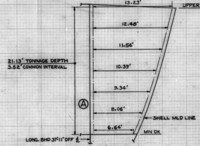
TONNAGE LENGTH = 87.04'
COMMON INTERVAL = 10.88'
(FOR TONNAGE SECTIONS SEE REF# 9)

NOTE: FOR TONNAGE SECTIONS ② THRU ⑰ SEE REF# 9



Ⓒ
13.40'
13.53'
13.66'
13.68'
13.52'
13.23'
12.81'

2.44' FWD FR 45

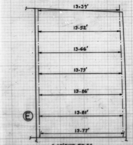


Ⓐ
13.23'
UPPER DK
12.48'
11.54'
10.39'
9.34'
8.06'
6.64'
21.13' TONNAGE DEPTH
3.52' COMMON INTERVAL
SHELL MLD LINE
MN DK
LONG. BHD 37'-11" OFF ℄

.53' FWD FR 34

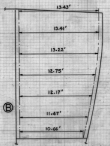
TONNAGE SECTIONS
Ⓐ THRU Ⓠ

FOR DETAILS NOT SHOWN SEE Ⓐ
$\frac{1}{4}" = 1'-0"$



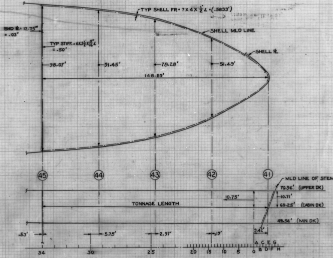
Ⓔ
13.39'
13.52'
13.66'
13.79'
13.86'
13.81'
13.77'

6.47' FWD FR 56



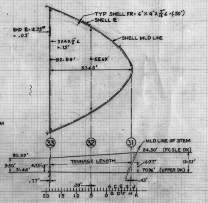
Ⓑ
13.43'
13.41'
13.22'
12.75'
12.17'
11.47'
10.66'

4.48' FWD FR 40



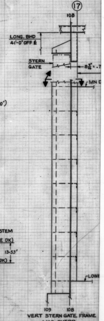
TYP SHELL FR = 7 X 4 X ½ ∠ = (.5833')
SHELL MLD LINE
SHELL ℄
BHD ℄ = 12.75" = .03'
TYP STIFF. = 6 X 3½ X 5/16 ∠ = .50'
98.07'
91.45'
78.28'
51.49'
148.89'
(45) (44) (43) (42) (41)
MLD LINE OF STEM
70.96' (UPPER DK)
10.71'
10.75'
60.25' (CABIN DK)
TONNAGE LENGTH
49.54' (MN DK)
3.42'
.53'
5.75'
2.97'
.19'
A C E G
B D F H
34
30
25
20
15
10
5
0

TWEEN DECK TONNAGE



TYP SHELL FR = 6" X 4" X 7/16 ∠ = (.50')
SHELL ℄
SHELL MLD LINE
BHD ℄ = 12.75" = .03'
9 X 4 X ½ ∠ = .75'
82.88'
55.69'
53.65'
(33) (32) (31)
MLD LINE OF STEM
84.50' (FCSLE DK)
80.99'
TONNAGE LENGTH
9.50'
71.48'
4.75'
6.77'
13.53'
70.96' (UPPER DK)
.77'
.39'
.43'
A C E G J
B D F H K
20
15
10
5
0

FORECASTLE TONNAGE



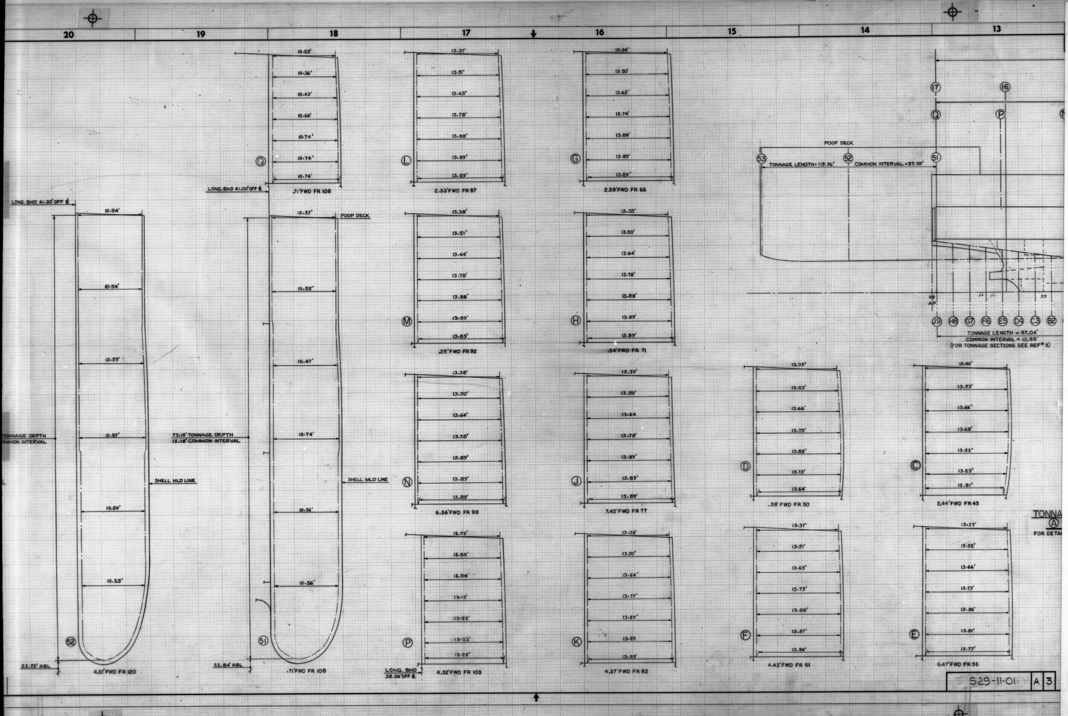
⑰
108
LONG. BHD
41'-0" OFF ℄
STERN
GATE
8 9/16" = .7
MN D
LOWE
109
108

VERT STERN GATE FRAME
LKG OUTBD

LOCATION OF FWD

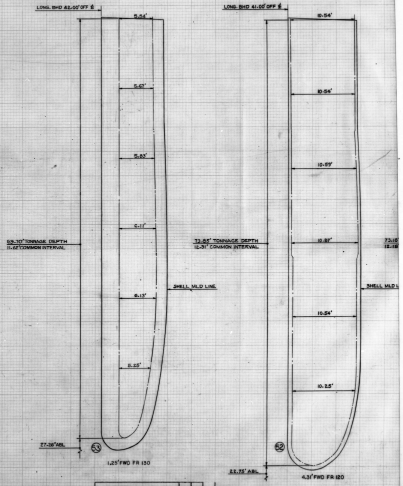
S29-11-01 A 3

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. S29-11-01 GD NO. 30210-09x1 FRAME 1 2 ③ 4


20
19
18
17
16
15
14
13
10.23'
10.36'
10.43'
10.66'
10.74'
10.74'
10.74'
Q
LONG. BHD 41.00' OFF ℄
.71' FWD FR 108
13.37'
13.51'
13.65'
13.78'
13.88'
13.89'
13.89'
L
2.33' FWD FR 87
13.36'
13.50'
13.65'
13.74'
13.88'
13.89'
13.89'
G
2.38' FWD FR 66
POOP DECK
53
52
51
TONNAGE LENGTH = 115.96'
COMMON INTERVAL = 57.98'
17
16
Q
P
109
AP
114
99
J9
H8
G7
F6
E5
D4
C3
B2
TONNAGE LENGTH = 87.04'
COMMON INTERVAL = 10.88'
(FOR TONNAGE SECTIONS SEE REF # 9)
LONG. BHD 41.00' OFF ℄
10.54'
10.54'
10.59'
10.87'
10.54'
10.25'
TONNAGE DEPTH
COMMON INTERVAL
SHELL MLD LINE
52
22.75' ABL
4.31' FWD FR 120
10.57'
POOP DECK
10.55'
10.47'
10.74'
10.56'
10.56'
73.18' TONNAGE DEPTH
12.18' COMMON INTERVAL
SHELL MLD LINE
51
22.84' ABL
.71' FWD FR 108
13.38'
13.51'
13.64'
13.78'
13.88'
13.89'
13.89'
M
.28' FWD FR 92
13.35'
13.50'
13.64'
13.78'
13.88'
13.89'
13.89'
H
.34' FWD FR 71
13.38'
13.50'
13.64'
13.78'
13.89'
13.89'
13.89'
N
6.36' FWD FR 98
13.39'
13.50'
13.64
13.78'
13.89'
13.89'
13.89'
J
7.42' FWD FR 77
13.39'
13.53'
13.66'
13.79'
13.85'
13.73'
13.64'
D
.39' FWD FR 50
13.40'
13.53'
13.66'
13.68'
13.52'
13.23'
12.81'
C
2.44' FWD FR 45
12.72'
12.85'
12.96'
13.12'
13.22'
13.22'
13.22'
P
LONG. BHD
38.58' OFF ℄
4.32' FWD FR 103
13.38'
13.50'
13.64'
13.77'
13.89'
13.89
13.89'
K
4.37' FWD FR 82
13.37'
13.51'
13.65'
13.79'
13.88'
13.87'
13.86'
F
4.43' FWD FR 61
13.39'
13.52'
13.66'
13.79'
13.86'
13.81'
13.77'
E
6.47' FWD FR 56
TONNA
A
FOR DETAI
S29-11-01
A
3

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO. S29-11-01 GD NO. 30210-09x1 FRAME 1 2 3 ④

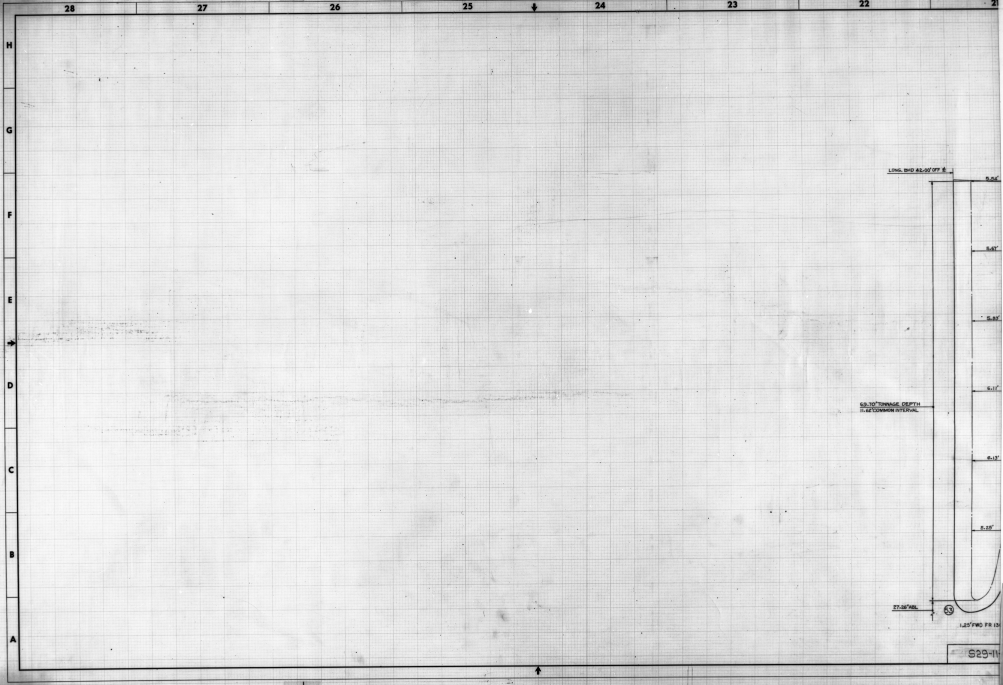

LONG. BHD 42.00' OFF ℄
5.54'
5.67'
5.83'
6.11'
6.13'
5.25'
69.70' TONNAGE DEPTH
11.62' COMMON INTERVAL
SHELL MLD LINE
27.26' ABL
53
1.25' FWD FR 130
LONG. BHD 41.00' OFF ℄
10.54'
10.54'
10.59'
10.87'
10.54'
10.25'
73.85' TONNAGE DEPTH
12.31' COMMON INTERVAL
73.18'
12.18'
SHELL MLD L
52
22.75' ABL
4.31' FWD FR 120

S29-11-01	A	4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

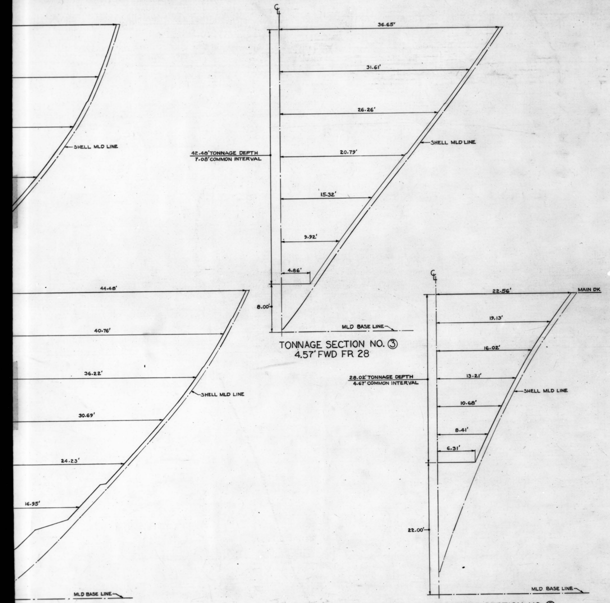
MA NO. S29-11-01 GD NO. 30210-09x1 FRAME 1 2 3 4

⑤


28
27
26
25
24
23
22
21
H
G
F
E
D
C
B
A
LONG. BHD 42.00' OFF ℄
5.54'
5.67'
5.83'
6.11'
69.70' TONNAGE DEPTH
11.62' COMMON INTERVAL
6.13'
5.25'
27.26' ABL
53
1.25' FWD FR 13
S29-11-

GENERAL DYNAMICS, QUINCY NOV. 1973 8X
MA NO. S29-11-02 GD NO. 30210-09X2 FRAME ① 2 3 4
SHEET 1 OF 2

8 7 6 5 4 3 2 1


℄
36.65'
31.61'
26.26'
SHELL MLD LINE
42.48' TONNAGE DEPTH
7.08' COMMON INTERVAL
20.79'
15.32'
9.92'
4.86'
8.00'
MLD BASE LINE
℄
22.56'
MAIN DK
19.13'
16.02'
28.02' TONNAGE DEPTH
4.67' COMMON INTERVAL
13.21'
SHELL MLD LINE
10.68'
8.41'
6.31'
22.00'
MLD BASE LINE
44.48'
40.76'
36.22'
SHELL MLD LINE
30.69'
24.23'
16.95'
MLD BASE LINE
SHELL MLD LINE

TONNAGE SECTION NO. ③
4.57' FWD FR 28

TONNAGE SECTION NO. ②
.95' FWD FR 21

SE SECTION NO. ④
FWD FR 34

GENERAL NOTES

1. FOR TONNAGE PROFILE & OTHER REFERENCES SEE REF# 1

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	1. PLAN APPD BY J.J. HENRY.	2/19/72				10 MAR 1972	

DESIGN ISSUE ONLY

REVISIONS	O	A	B	C
TO		3 13 72		
LYKES				
M.A.(WASH)				
M.A.(YARD)		/		
J.J.HENRY(YARD)		/		
J.J.HENRY(HOME)		/		
ABS				
USCG				
USPHS				
871		3		
872				
873				
874				
875				
876				
TP 866		/		
LIBRARY		3		
TOTAL NRO'S FS		10		
TOTAL NRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
			800		
			820		
			826		
			829		
			830		
			841		
			842		
			843		
			844		
			899		
			LIBRARY		
			TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
1	TONNAGE PROFILE & MISC SECTS	30210-09 X 1	S29-11-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO. 30210-09X2

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR HAKULIN
SUPV
ENGR EGF

TONNAGE SECTIONS
UNDER MAIN DECK

APPROVED DATE
F.S. Roy 8/12/71
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	S29-11-02	A

SCALE 1/4" = 1'-0"   SHEET 1 OF 2

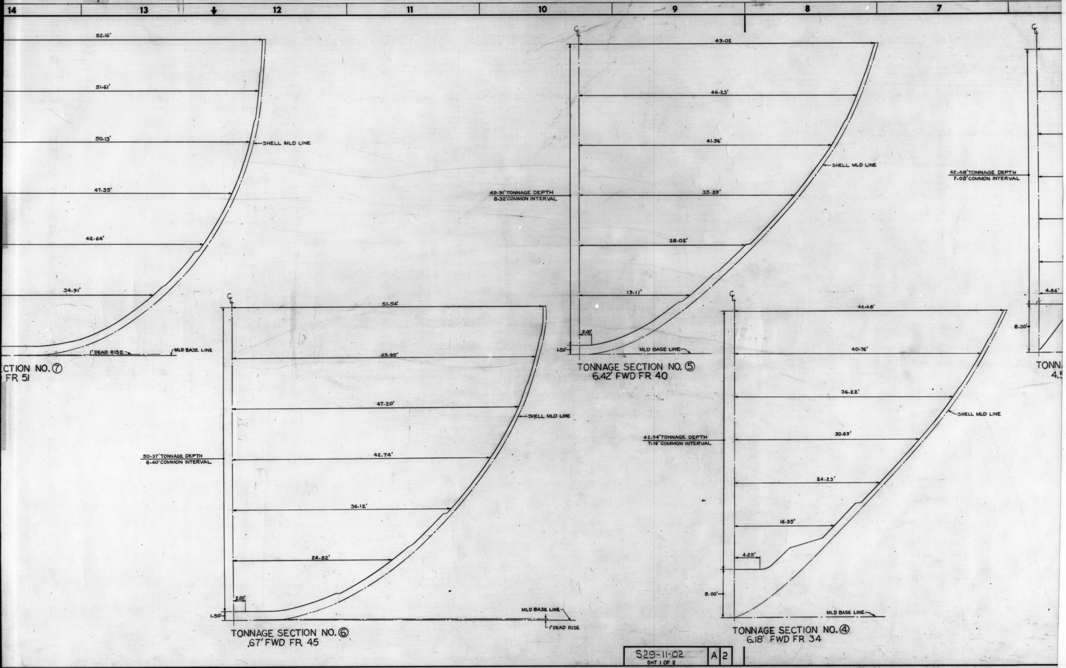
APPROVAL LTR DATED
ABS ~~NOT REQD~~ LTR DTD 8-24-71
USCG NOT REQD
USPHS NOT REQD

AREA = 28 SQ FT

H G F E D C B A

M.A. DWG NO. S29-11-02
DWG. NO. 30210-09X2
Q div DWG NO. 30210-09X2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. S29-11-02 GD NO. 30210-09x2 FRAME 1 ② 3 4
SHEET 1 OF 2



14
13
12
11
10
9
8
7
52.16'
51.61'
50.13'
SHELL MLD LINE
47.35'
42.64'
34.91'
1" DEAD RISE
MLD BASE LINE
ECTION NO. ⑦
FR 51
℄
49.02
46.23'
41.96'
SHELL MLD LINE
49.91' TONNAGE DEPTH
8.32' COMMON INTERVAL
35.59'
28.02'
19.11'
2.00'
1.50'
MLD BASE LINE
℄
51.54'
49.95'
47.20'
SHELL MLD LINE
50.37' TONNAGE DEPTH
8.40' COMMON INTERVAL
42.74'
36.12'
24.82'
2.00'
1.50'
MLD BASE LINE
1" DEAD RISE
℄
44.48'
40.76'
36.22'
SHELL MLD LINE
42.94' TONNAGE DEPTH
7.16' COMMON INTERVAL
30.69'
24.23'
16.95'
4.25'
8.00'
MLD BASE LINE
℄
42.48' TONNAGE DEPTH
7.08' COMMON INTERVAL
4.86'
8.00'
TONN
4.5

TONNAGE SECTION NO. ⑤
6.42' FWD FR 40

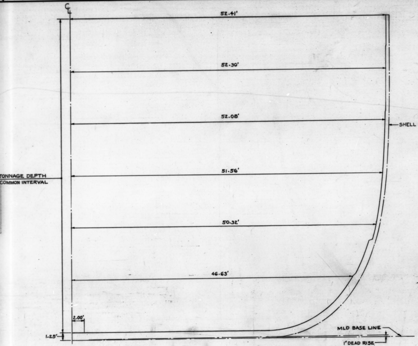
TONNAGE SECTION NO. ⑥
.67' FWD FR 45

TONNAGE SECTION NO. ④
6.18' FWD FR 34

S29-11-02 | A | 2
SHT 1 OF 2

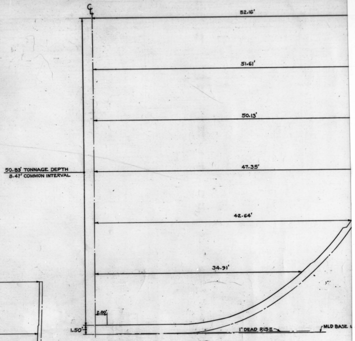
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. S29-11-02 GD NO. 30210-09x2 FRAME 1 2 ③ 4
SHEET 1 OF 2

20 19 18 17 16 15 14 13



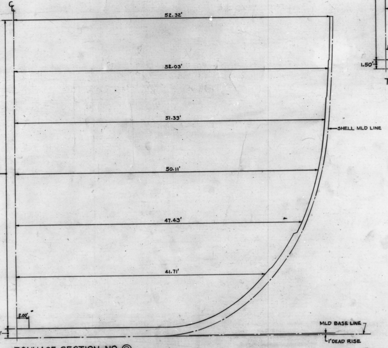
CL
52.41'
52.30'
52.08'
SHELL MLD LINE
51.56'
TONNAGE DEPTH
COMMON INTERVAL
50.32'
46.63'
2.00'
1.25'
MLD BASE LINE
1" DEAD RISE

TONNAGE SECTION NO. ⑨
7.77' FWD FR 63



CL
52.16'
51.61'
50.13'
50.83' TONNAGE DEPTH
8.47' COMMON INTERVAL
47.35'
42.64'
34.91'
2.00'
1.50'
1" DEAD RISE
MLD BASE L

TONNAGE SECTION NO. ⑦
3.04' FWD FR 51

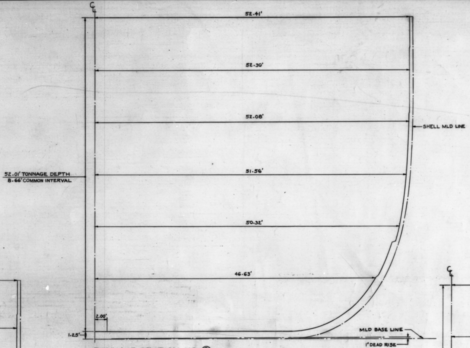


CL
52.32'
52.03'
51.33'
SHELL MLD LINE
51.30' TONNAGE DEPTH
8.55' COMMON INTERVAL
50.11'
47.43'
41.71'
2.00'
1.50'
MLD BASE LINE
1" DEAD RISE
SHELL MLD LINE
1" RISE
MLD BASE LINE
1" DEAD RISE
50.37' TONNAGE DEPTH
8.40' COMMON INTERV

TONNAGE SECTION NO. ⑧
5.40' FWD FR 57

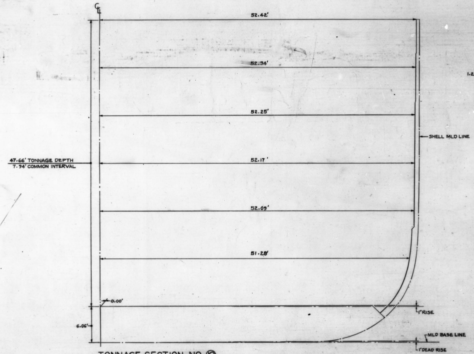
S29-11-02 SHT 1 OF 2	A	3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. S29-11-02 GD NO. 30210-09x2 FRAME 1 2 3 ④
SHEET 1 OF 2



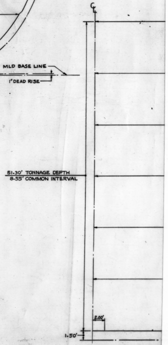
CL
52.41'
52.30'
52.08'
51.56'
50.32'
46.63'
SHELL MLD LINE
52.01' TONNAGE DEPTH
8.66' COMMON INTERVAL
2.00'
1.25'
MLD BASE LINE
1" DEAD RISE

TONNAGE SECTION NO. ⑨
7.77' FWD FR 63



CL
52.42'
52.34'
52.25'
52.17'
52.09'
51.28'
SHELL MLD LINE
47.66' TONNAGE DEPTH
7.94' COMMON INTERVAL
0.00'
6.06'
1" RISE
MLD BASE LINE
1" DEAD RISE

TONNAGE SECTION NO. ⑩
2.01' FWD FR 68



CL
51.30' TONNAGE DEPTH
8.55' COMMON INTERVAL
2.00'
1.50'

TONNAGE SECTI
5.40' FWD FR

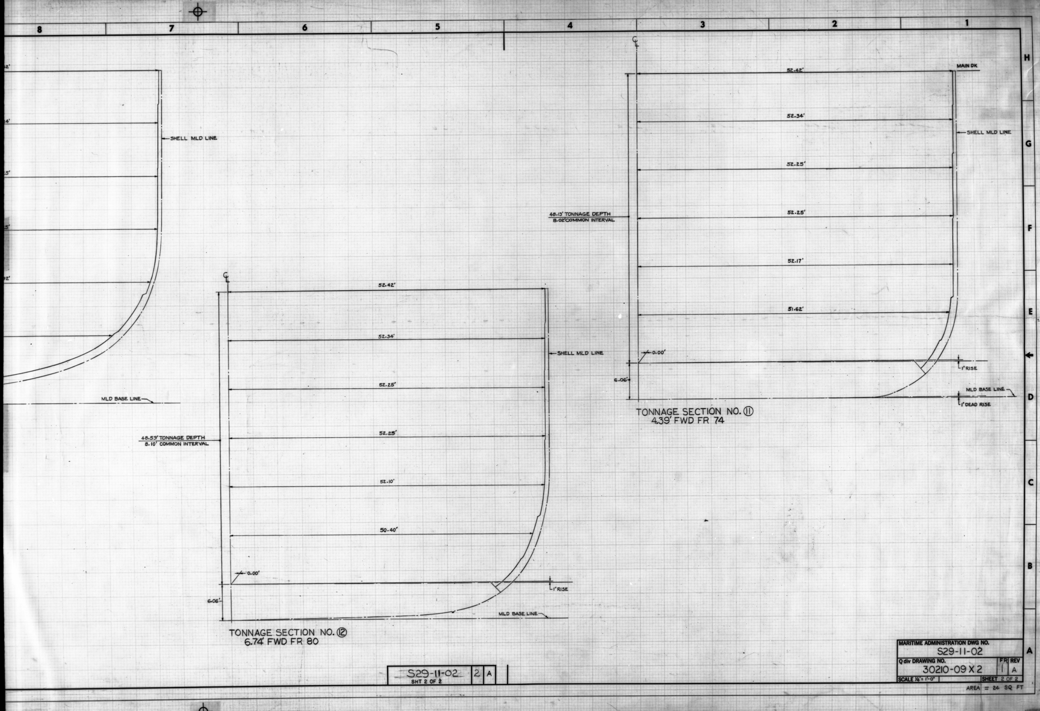
S29-11-02 | A | 4
sh. 1 of 2

S29-11-02
SHT 1 OF 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. S29-11-02 GD NO. 30210-09X2 FRAME ① 2 3 4

SHEET 2 OF 2


8
7
6
5
4
3
2
1
H
G
F
E
D
C
B
A
℄
MAIN DK
52.42'
52.34'
52.25'
52.25'
52.17'
51.62'
SHELL MLD LINE
48.13' TONNAGE DEPTH
8.02' COMMON INTERVAL
0.00'
6.06'
1" RISE
MLD BASE LINE
1" DEAD RISE
℄
52.42'
52.34'
52.25'
52.25'
52.10'
50.40'
SHELL MLD LINE
48.59' TONNAGE DEPTH
8.10' COMMON INTERVAL
0.00'
6.06'
1" RISE
MLD BASE LINE
SHELL MLD LINE
MLD BASE LINE

TONNAGE SECTION NO. ⑪
4.39' FWD FR 74

TONNAGE SECTION NO. ⑫
6.74' FWD FR 80

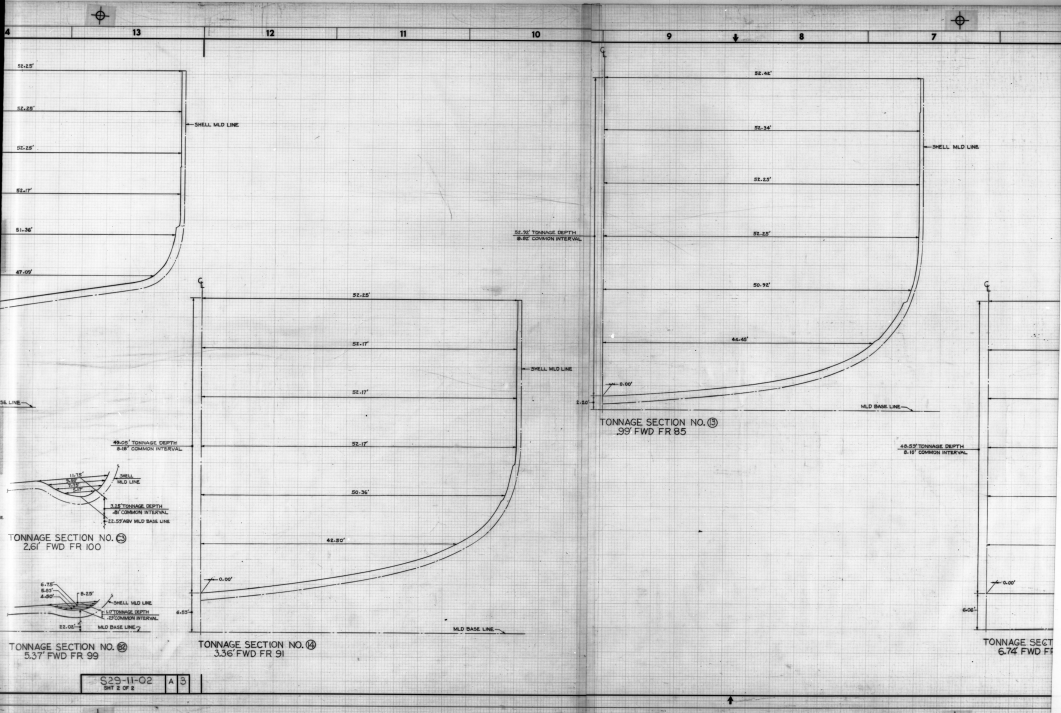
S29-11-02 SHT 2 OF 2	2	A

MARITIME ADMINISTRATION DWG NO. S29-11-02		
Q div DRAWING NO. 30210-09 X 2	FR 1	REV A
SCALE ¼" = 1'-0"	SHEET 2 OF 2	

AREA = 24 SQ FT

30210-09 X 2

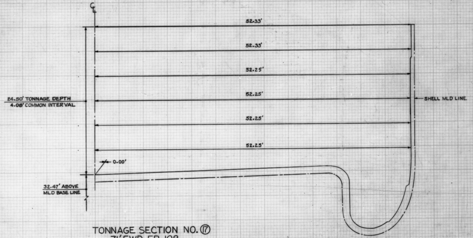
GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. S29-11-02 GD NO. 30210-09X2 FRAME 1 ② 3 4
SHEET 2 OF 2



13
12
11
10
9
8
7
52.25'
52.25'
SHELL MLD LINE
52.25'
52.17'
51.36'
47.09'
BASE LINE
11.75'
5.50'
7.15'
5.17'
SHELL MLD LINE
3.25' TONNAGE DEPTH
.81' COMMON INTERVAL
22.59' ABV MLD BASE LINE
TONNAGE SECTION NO. Ⓒ3
2.61' FWD FR 100
6.75'
5.83'
4.50'
8.25'
SHELL MLD LINE
1.17' TONNAGE DEPTH
.29' COMMON INTERVAL
22.02'
MLD BASE LINE
TONNAGE SECTION NO. Ⓑ2
5.37' FWD FR 99
CL
52.25'
52.17'
SHELL MLD LINE
52.17'
49.05' TONNAGE DEPTH
8.18' COMMON INTERVAL
52.17'
50.36'
42.50'
0.00'
6.53'
MLD BASE LINE
TONNAGE SECTION NO. ⑭
3.36' FWD FR 91
CL
52.42'
52.34'
SHELL MLD LINE
52.25'
52.92' TONNAGE DEPTH
8.82' COMMON INTERVAL
52.25'
50.92'
44.45'
0.00'
2.20'
MLD BASE LINE
TONNAGE SECTION NO. ⑬
.99' FWD FR 85
CL
48.53' TONNAGE DEPTH
8.10' COMMON INTERVAL
0.00'
6.06'
TONNAGE SECT
6.74' FWD F

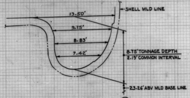
S29-11-02 A 3
SHT 2 OF 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. S29-11-02 GD NO. 30210-09x2 FRAME 1 2 ③ 4
SHEET 2 OF 2



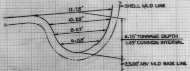
℄
52.33'
52.33'
52.25'
52.25'
52.25'
52.25'
24.50' TONNAGE DEPTH
4.08' COMMON INTERVAL
SHELL MLD LINE
0.00'
32.47' ABOVE MLD BASE LINE

TONNAGE SECTION NO. ⑰
.71' FWD FR 108



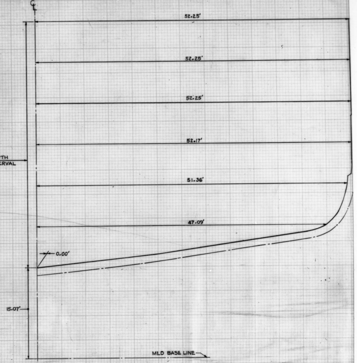
SHELL MLD LINE
13.50'
9.75'
8.83'
7.42'
8.75' TONNAGE DEPTH
2.19' COMMON INTERVAL
23.26' ABV MLD BASE LINE

TONNAGE SECTION NO. G7
7.47' FWD FR 106



SHELL MLD LINE
12.75'
10.25'
8.67'
6.58'
6.75' TONNAGE DEPTH
1.69' COMMON INTERVAL
23.00' ABV MLD BASE LINE

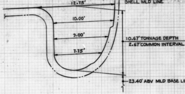
TONNAGE SECTION NO. F6
2.47' FWD FR 104



℄
52.25'
52.25'
52.25'
52.17'
51.36'
47.09'
40.97' TONNAGE DEPTH
6.83' COMMON INTERVAL
0.00'
15.07'
MLD BASE LINE

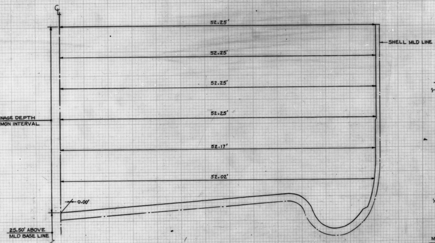
TONNAGE SECTION NO. ⑮
5.73' FWD FR 97

49.05' TONNAGE DEPTH
8.18' COMMON INTERVAL



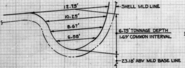
12.75'
SHELL MLD LINE
10.00'
9.00'
7.75'
10.67' TONNAGE DEPTH
2.67' COMMON INTERVAL
23.40' ABV MLD BASE LINE

TONNAGE SECTION NO. J9
.71' FWD FR 108



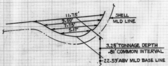
℄
52.25'
52.25'
52.25'
52.25'
52.17'
52.02'
SHELL MLD LINE
31.00' TONNAGE DEPTH
5.16' COMMON INTERVAL
0.00'
25.50' ABOVE MLD BASE LINE

TONNAGE SECTION NO. ⑯
8.09' FWD FR 103



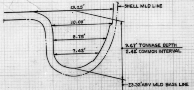
12.75'
SHELL MLD LINE
10.25'
8.67'
6.58'
6.75' TONNAGE DEPTH
1.69' COMMON INTERVAL
23.18' ABV MLD BASE LINE

TONNAGE SECTION NO. E5
5.23' FWD FR 103



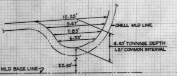
11.75'
9.50'
7.75'
5.17'
SHELL MLD LINE
3.25' TONNAGE DEPTH
.81' COMMON INTERVAL
22.59' ABV MLD BASE LINE

TONNAGE SECTION NO. C3
2.61' FWD FR 100



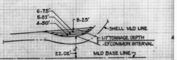
13.25'
SHELL MLD LINE
10.00'
8.75'
7.42'
9.67' TONNAGE DEPTH
2.42' COMMON INTERVAL
23.32' ABV MLD BASE LINE

TONNAGE SECTION NO. H8
3.59' FWD FR 107



12.25'
9.67'
7.83'
6.33'
SHELL MLD LINE
4.83' TONNAGE DEPTH
1.21' COMMON INTERVAL
MLD BASE LINE
22.80'

TONNAGE SECTION NO. D4
7.98' FWD FR 102



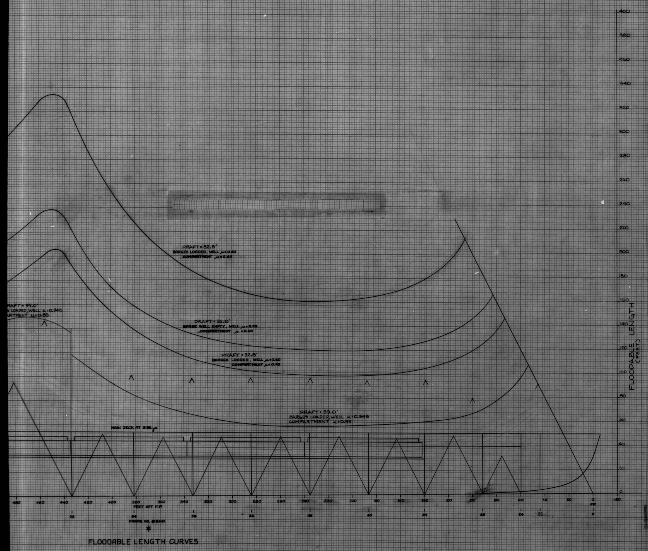
6.75'
5.83'
4.50'
8.25'
SHELL MLD LINE
1.17' TONNAGE DEPTH
.29' COMMON INTERVAL
22.02'
MLD BASE LINE

TONNAGE SECTION NO. B2
5.37' FWD FR 99

S29-011-002	A	4

S29-11-02 SHT 2 OF 2	A

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-529-12-1 GD NO. 30210-60-02 FRAME ① 2 3 4



FLOODABLE LENGTH CURVES

GENERAL NOTES

1. "WELL EMPTY" = 0.95 BARGE WELL PERMEABILITY.
2. "BARGES LOADED" = 0.60 " " " " @ 32.8' DRAFT.
   "BARGES LOADED" = 0.345 " " " " @ 39.0' DRAFT.
3. "COMPARTMENT μ =" REFERS TO PERMEABILITY OF THE DAMAGED VOLUME.
4. BARGE WELL IS ASSUMED FLOODED IN ALL CASES
5. MARGIN LINE PARABOLIC IN SHAPE WITH ORDINATES 9" BELOW MAIN DECK AT SIDE MIDSHIPS AND 3" BEL. MN. DK. AT SIDE AT THE ENDS IN ACCORDANCE WITH PAR. 73.05-6 OF USCG RULES & REGULATIONS FOR PASSENGER VESSELS, SUBCHAPTER "H".

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
4	BODY PLAN - FWD	30220-01x04	241-505-00-05
3	BODY PLAN - AFT	30220-01x03	241-505-00-04
2	HYDROSTATIC CURVES	30210-57x02	241-529-13-01
1	BONJEAN CURVES	30210-57x01	241-505-00-01

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. REV "O" APPROVED BY JJ HENRY LTR FILE: 5589/529/ A.H.S.-103-71. DATED SEPT 21, 1971. ITEMS 2 THRU 4 ADDED TO SUIT APPROVAL COMMENTS.	11/12/71	WRC			23 NOV 1971	
ALL		2. ADDED FLOODABLE LENGTH CURVE FOR 39.0' DRAFT.						
4-A		3. ADDED INDIC OF W.T. BHD AT FR 22.						
4-A, 3-A		4. ADDED VERTICAL SCALE INDIC & REF 1 THRU 4.						

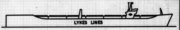
REVISIONS	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		11/29						800		
LYKES		1						820		
M.A.(WASH)		1						826		
M.A.(YARD)		1						829		
J.J.HENRY(YARD)		1						830		
J.J.HENRY(HOME)		1						841		
ABS ½		1						842		
USCG ½		1						843		
USPHS								844		
								899		
								LIBRARY		
871		3								
872										
873										
874										
875										
876										
TOTAL NRO'S FS		10								
TOTAL NRO'S HS										
TOTAL RO								TOTAL		

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30210-60-02

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN ______
DSGNR ______
SUPV RGF
ENGR WJB

FLOODABLE LENGTH CURVE

APPROVED DATE 2/15/71
R.G. Fred
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-529-12-1	A

SCALE 1" = 20'   SHEET 1 OF 1

APPROVAL LTR DATED
ABS ______
USCG ______
USPHS ______

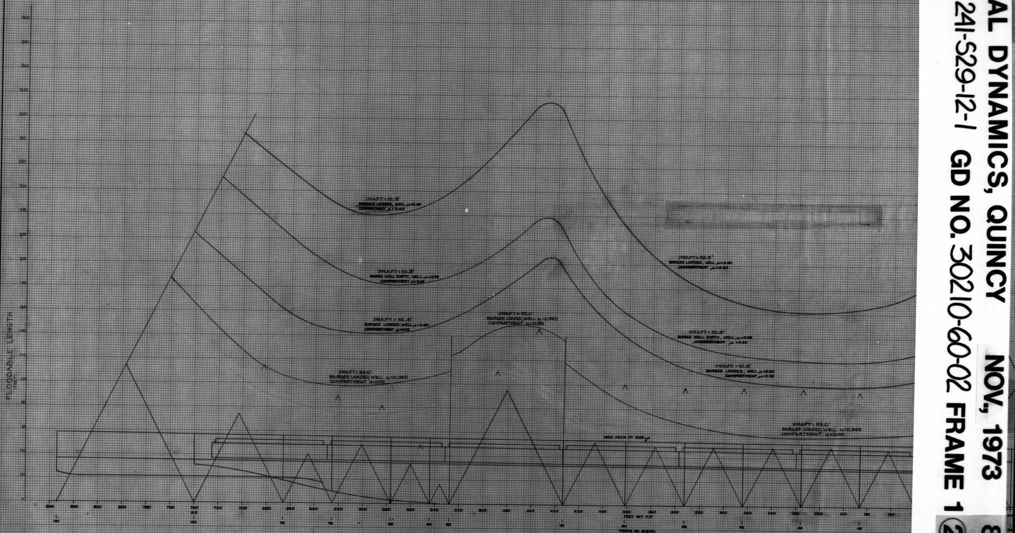
AREA = SQ FT

DWG. NO. 30210-60x02

M.A. DWG NO. 241-529-12-1

Q div DWG NO. 30210-60x02

12 11 10 9 8 7 6

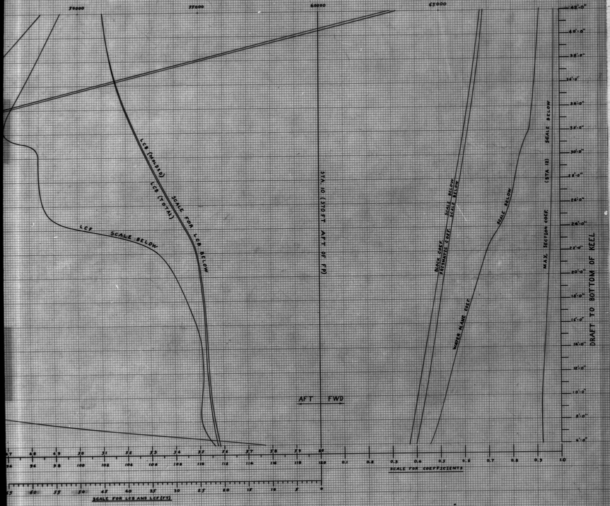


FLOODABLE LENGTH CURVES

214-529-12-1 A 2

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-529-12-1 GD NO. 30210-60-02 FRAME 1 ② 3 4

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	A	APPROVED – INCLUDING CORRECTIONS RECEIVED AT TIME OF SUBMISSION: GD LETTER WP-52/874 DEPT. FILE NO.: 918/L1109/AND80095, J.J. HENRY: 5589/529/AHS-108-70, U.S.C.G. 5940	8/4/70	WRC				

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD

REVISIONS	O	A	B	C
TO		850		
LYKES				
M.A.(WASH)				
M.A.(YARD)		1		
J.J.HENRY(YARD)		1		
J.J.HENRY(HOME)				
ABS		1		
USCG		1		
USPHS				
871		5		
872				
873				
874				
875				
876				
TOTAL NRO'S FS		9		
TOTAL NRO'S HS				
TOTAL RO				

4th FLD

SHOP ORDER	REV	DATE
30212	A	3/4/70

DEPT	QTY FS	QTY HS
800		
820	7	
826	12	
829		
830		
841		
842		
843		
844		
899		
LIBRARY	5	
824 Cameron	1	
814 [illegible]	1	
Lawson	1	
866	1	
820 [illegible]	1	
TOTAL	29	

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

PRINCIPAL DIMENSIONS

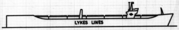
L O A (INCLUDING 114'-0" CANT.)	873'-9"
L B P	740'-0"
BEAM (MOLDED)	105'-10"
DEPTH (MOLDED) (@ STA 10 @ SIDE)	74'-9"

GENERAL NOTES

ALL CURVES INCLUDE EFFECT OF SKEG AND CANTILEVER

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
1	BONJEAN CURVES	30210-57X01	505-00-01
2	FWD BODY LINES PLAN	30220-01-04	505-00-05
3	AFT BODY LINES PLAN	30220-01-03	505-00-04

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO. 30210-57X02

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN ______
DSGNR ______
SUPV ______
ENGR GWS

CURVES OF FORM

APPROVED DATE R.G. Ford 3/3/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	S29-13-01	A

SCALE
SHEET 1 OF 1

APPROVAL LTR DATED
ABS ______
USCG ______
USPHS ______

AREA = 19.2 SQ FT

H G F E D C B A

M.A. DWG NO.

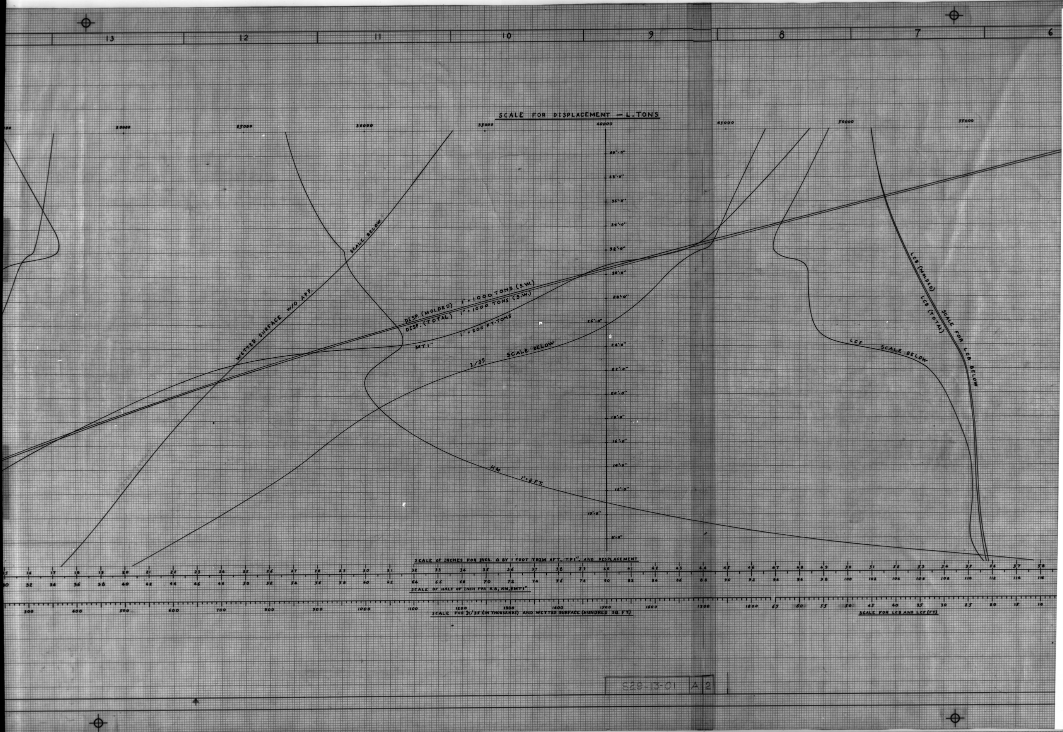
DWG. NO. 30210-57X02

Q div DWG NO. 30210-57X02

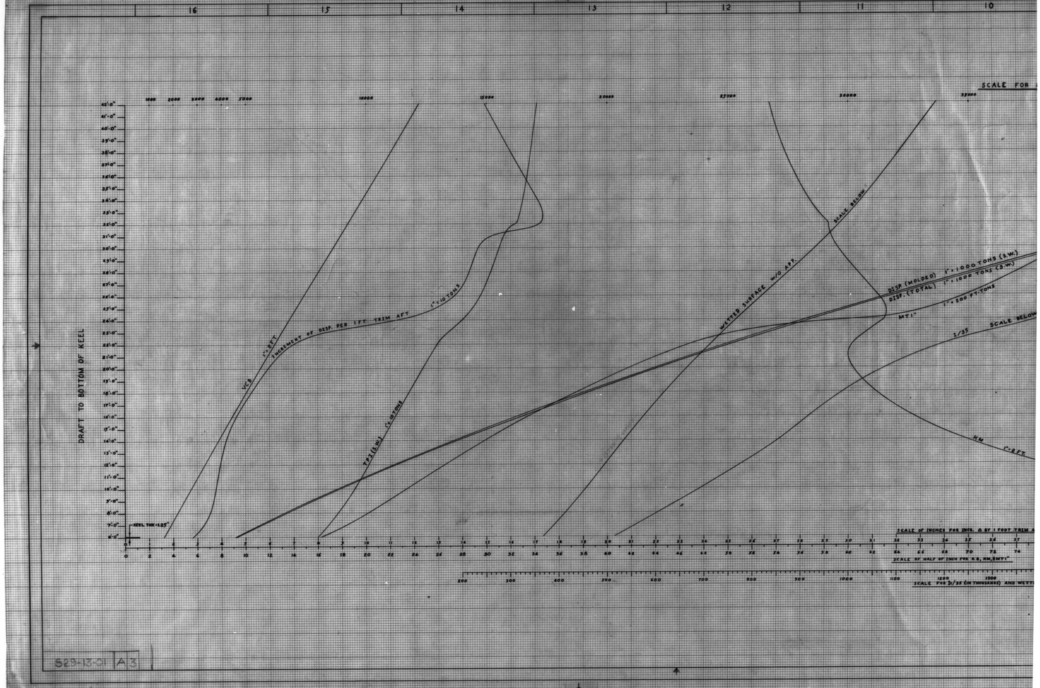
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. S29-13-01 GD NO. 30210-57X02 FRAME ① 2 3 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

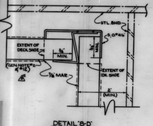
MA NO. S29-13-01 GD NO. 30210-57X02 FRAME 1 ② 3 4



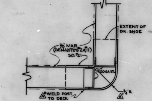
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. S29-13-01 GD NO. 30210-57X02 FRAME 1 2 ③ 4



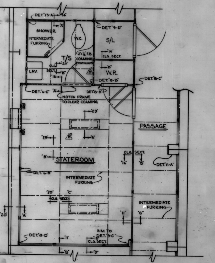
GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-S33-1-4 GD NO.30574-15x01 FRAME ① 2 3 4


STL. BHD.
S.O.#416
EXTENT OF DECK SHOE
3/4" MIN.
3/4" MIN.
(GEN. NOTE #2 & #12)
B 12
7/8" MAR.
EXTENT OF DK. SHOE
2" (MIN.)

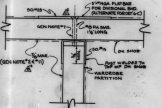
DETAIL "8-D"
INSIDE CORNER
7/8 LINING


EXTENT OF DK. SHOE
7/8" MAR. (GEN. NOTES #2 & #11)
S.O.#21
#20 GA. STL.
A 8 WELD POST TO DECK
A 7 3/4" R.

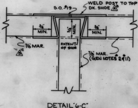
DETAIL "6-D"
TYP. OUTSIDE CORNER - 7/8" DIV. BHD.


DET. "13-A"
"16"
"A"
SHOWER
INTERMEDIATE FURRING
W.C.
DET. "9-D"
S/L
2" x 1/4" F.B. COAMING CONTINUOUS
"14" CLG. SECT.
T/S
"20"
CLG. SECT.
"B"
"16"
LAV.
B 11
"B"
W.R.
DET. "9-B"
DET. "8-C"
DET. "6-C"
"A"
NOTCH FRAME TO CLEAR COAMING
DET. "8-B"
"29"
PASSAGE
"29"
B 5
"A"
"B"
STATEROOM
CLG. SECT.
"16"
"B"
DET. "11-A"
DET. "6-B"
INTERMEDIATE FURRING
"20"
"C"
CLG. SECT.
INTERMEDIATE FURRING
"20"
"A"
"11"
"C"
DET. "8-D"
"11"
SIM. TO DET. "9-C"
"18" CLG. SECT.
"B"
"D"

TYPICAL STATEROOM
(FOR JOINER DETAIL REFERENCE ONLY)
SCALE: 1/2" = 1'-0"


S.O.#23
C 2
3" x #14 GA. FLAT BAR FOR DIVISIONAL BHD. (ALTERNATE FOR DET. "6-C")
GEN. NOTE #7
#8 F.H. SMS. 1 1/2" LONG
7/8" MAR. (GEN NOTE #2 & #11)
B 12
3/4" MIN.
S.O.#15
DK SHOE
POST WELDED TO TOP OF DK. SHOE
WARDROBE PARTITION

DETAIL "8-C"
METHOD OF SECURING
WARDROBE PARTITION


S.O.#19
WELD POST TO TOP OF DK. SHOE A 8
3/4" MIN.
3/4" MIN.
3/4" MIN.
7/8" MAR.
B 12
EXTENT OF SHOE
7/8" MAR. (GEN NOTES #2 & #11)

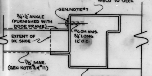
DETAIL "6-C"
7/8" "T" CONNECTION
FOR ALTERNATE SEE DETAIL "8-C"

GENERAL NOTES (CONT'D)

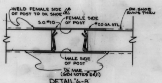
B 13 10. CEILINGS SHALL BE 3/16" MARINE VENEER CONFORMING TO MARAD SPEC. 32-MA-5 TYPE III OR I, APPROX. 48" x 48" W/BEVELED JOINTS. ACOUSTIC PANELS WHERE REQ'D. SHALL BE PERFORATED M.V. WITH J.M. MICROLITE 1# DENSITY SOUND ABSORBING INSULATION PERMANENTLY CEMENTED TO BACK OF PANEL, INSULATION SHALL BE AS APPROVED BY U.S.C.G. EQUIP. LIST CG-190-Nº 164.009/72/0 - PANELS SHALL BE JOHNS-MANVILLE MARINE VENEER AS APPROVED BY U.S.C.G. EQUIPMENT LIST CG 190 Nº 164.009 - ITEM Nº 3.

A 34 11. PANELS FOR JOINER DIVISIONAL BHD'S SHALL BE JOHNS-MANVILLE MARNITE-36, 3/4" TK. (APPVD. BY U.S.C.G. EQ. LIST CG. 190-#164-008/12/1), VENEERED BOTH SIDES WITH DECORATIVE MELAMINE IN ACCORDANCE WITH MARITIME ADMINISTRATION SPEC. 32-MA-5 TYPE II, CLASS 3, STYLE "C" - OVERALL THICKNESS SHALL BE 7/8" MELAMINE VENEERS SHALL BE AS DESCRIBED IN GEN. NOTE #2.

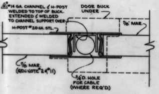
A 34 12. PANELS FOR JOINER LININGS SHALL BE SIMILIAR TO ABOVE EXCEPT THAT DECORATIVE MELAMINE SHALL BE APPLIED ONE SIDE AND OPPOSITE SIDE SHALL HAVE BACKING SHEET OF ASBESTOS FOR BALANCING PURPOSES.


WELD TO DECK
GEN. NOTE #7
3/4" x 1/2" ANGLE (FURNISHED WITH DOOR FRAME)
EXTENT OF DK. SHOE
#6 O.H. SMS. 3/4" LONG 12" O.C.
7/8" MAR. (GEN NOTE #2 & #11)
DOOR BUCK

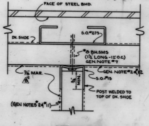
DETAIL "8-B"
TYPICAL METHOD OF SECURING
DOOR BUCK TO 7/8" MAR.


WELD FEMALE SIDE OF POST TO DK. SHOE A 8
S.O.#10
FEMALE SIDE OF POST
#20 GA. STL.
DK. SHOE RUNS THRU
MALE SIDE OF POST
7/8" MAR. (GEN NOTES #2 & #11)

DETAIL "6-B"
TYPICAL H-POST
7/8" DIV. BHD.


A 9 #14 GA. CHANNEL & H-POST WELDED TO TOP OF BUCK. EXTENDED & WELDED TO CHANNEL SUPPORT OVER
DOOR BUCK UNDER
H-POST #20 GA. STL.
7/8" MAR.
7/8" MAR. (GEN NOTE #2 & #11)
3/4" D. HOLE FOR CABLE (WHERE REQ'D)

DETAIL "8-A"
OVERHEAD SECTION


FACE OF STEEL BHD.
DK. SHOE
S.O.#273
#8 BH. SMS (1 1/2" LONG - 12" O.C.) GEN. NOTE #7
7/8" MAR.
B 12
GEN. NOTE #2 & #12
3/4" MIN.
S.O.#15
POST WELDED TO TOP OF DK. SHOE
(GEN NOTES #2 & #11)

DETAIL "6-A"
METHOD OF SECURING
7/8" DIV. BHD. TO LINING

GENERAL NOTES

A 2 1. ALL JOINER SHAPES, FURRING MEMBERS, FURRING HANGERS, MOULDING, H-POSTS, ETC. USED IN THE ERECTION OF BHD'S, LININGS, AND CLG'S, SHALL BE OF #16 GA. STL. UNLESS NOTED OTHERWISE. EXPOSED FRAMING AND MOULDINGS SHALL HAVE BAKED ENAMEL, TO BLEND WITH THE COLOR OF THE BHD. AND CLG. FINISHES IN THE SPACES WHERE INSTALLED. UNEXPOSED JOINER MEMBERS SHALL HAVE A FACTORY APPLIED COATING OF ZINC CHROMATE PRIMER. ALL FIELD WELDS OR CUTS SHALL BE TOUCHED UP WITH THE SAME COATING AS ORIGINALLY APPLIED EXCEPT THAT BAKING WILL NOT BE REQUIRED.

A 3 2. ALL MELAMINE LAMINATES REQUIRED TO FACE DIVISIONAL BULKHEADS, OR LININGS SHALL BE ASBESTOS BACKED IN ACCORDANCE WITH U.S.C.G. SUB-PART 164.012 - INTERIOR FINISHES FOR MERCHANT VESSELS, AND SHALL BEAR PROPER UNDERWRITERS LABEL AS PER U.S.C.G. REQUIREMENTS.

A 6 3. ALL EXPOSED JOINER MEMBERS IN SHOWER SPACES SHALL BE OF STAINLESS STEEL (CRES). PANELS SHALL BE BEDDED IN KUHLS "BEDLAST", TO PROVIDE A WATERPROOF JOINTING WITH THE JOINER POSTS AND SHOWER RECEPTOR. (FINISH FOR STAINLESS STEEL SHALL BE SATIN #4)

A 32 4. DIVISIONAL JOINER BULKHEADS BETWEEN WORKING SPACES AND STOREROOMS, AND BETWEEN LIVING SPACES AND STOREROOMS SHALL BE RATPROOFED ON STOREROOM SIDE. (FOR INSTALLATION DETAILS SEE SECTION "22-A")

5. RAT PROOFING SHALL BE 6" HIGH IN WORKING SPACES AND STOREROOMS HAVING JOINER LININGS.

6. HEAVY ITEMS, SUCH AS ELECTRICAL PANELS, AIR COND. UNITS, ETC., WHERE AGAINST JOINER BULKHEADS OR LINING, SHALL BE SUPPORTED BY INDEPENDENT STRENGTH MEMBERS, OTHER THAN THE BULKHEAD OR LINING PANEL, AND SHALL BE THROUGH BOLTED.

7. ALL FASTENERS SHALL BE OF NONCORROSIVE MATERIALS. SCREWS GENERALLY SHALL BE OF THE SELF TAPPING TYPE, PARKER KALON, OR EQUAL, CADMIUM PLATED, WITH EXPOSED HEADS PAINTED TO MATCH SURROUNDINGS.

A 4 8. APPROVED TYPE INSULATING TAPE 3-M-EC-1202 SHALL BE USED BETWEEN ALL FAYING SURFACES OF DISSIMILAR METALS.

A 5 B 3 9. ALL WELDED CONNECTIONS INDICATED ON DETAILS SHALL BE TACKWELDS EXCEPT WHERE NOTED OTHERWISE. ALL WELDS SHALL BE ADEQUATE TO SECURELY FASTEN ALL MEMBERS AND PREVENT RATTLING.

REFERENCES

B 2

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
8	DECK COVERING SCHEDULE	30491-01x1	241-514-1-2
7	NAV. BRIDGE DECK	-50x02	241-533-1-12
6	BRIDGE DECK	-50x01	241-533-1-11
5	UPPER, 82'-0" FLAT & 91'-0" FLAT	40x01	241-533-1-10
4	FR. 52-71	-30x03	241-533-1-9
3	FR. 34-52	-30x02	241-533-1-8
2	CABIN DECK FR. 26-34	-30x01	241-533-1-7
1	JOINER GEN. ARRGT. MAIN DECK	30574-20x01	241-533-1-6

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. PLAN REV. "O" APPROVED BY J.J. HENRY LTR. 5589/533/AHS-538-70 DATED 7/22/70 SUBJECT TO COMMENTS NOTED BELOW					11/19/70	FILE 5589/
5		2. ADDED ADDITIONAL INFORMATION TO GEN. NOTE #1						
		3. CORRECTED NUMBER IN GEN. NOTE #2 FROM 64.012 TO 164.012						
		4. NOTED APPROVED TYPE OF INSULATING TAPE.						
		5. REVISED WORDING OF GEN. NOTE #9 TO SUIT AND INDICATED WELDS						
		6. NOTED FINISH FOR STAINLESS STEEL IN GEN. NOTE #3						
6		7. INDICATED SIZE OF RADIUS IN DETAIL "6-D".						
8		8. IN DETAILS "6-B", "6-C" & "6-D" INDICATED HOW POSTS ARE SECURED						
		9. ADDED NOTE TO DETAIL "8-A"						
11		10. REVISED FILLER IN DETAILS "11-B" & "11-C" TO RUN TO DK. SHOE						
		11. CORRECTED GAGE OF RAT-PROOFING AND INDICATED METHOD OF SECURING						
		12. ADDED SOUND DEADENING TO DETAIL "11-A"						
13		13. ADDED NOTE TO DETAIL "13-C"						
		14. INDICATED THAT SCREWS FOR SECURING TRIM IN DETAIL "13-A" SHALL BE STAINLESS STEEL.						
14		15. INDICATED FINISH FOR TRIM DETAIL "14-B".						
		16. INDICATED SIZE AND SPACING FOR HOLES IN HEAD CHANNEL (DETAIL "14-B")						
		17. NOTED THAT SCREWS FOR SECURING TRIM SHALL BE STAINLESS STEEL (DET. 14-B)						
		18. ROUNDED CORNER ON TRIM AND NOTED TYPE OF TAPE (DETAIL "14-A")						
		19. REVISED FILLER IN DETAIL "14-A" TO RUN TO DK. SHOE.						
		20. INDICATED THAT DK. SHOE IN DETAIL "14-A" SHALL HAVE 3/4" PANEL COVERAGE						
15		21. ADDED SECTION "15-B"						
16		22. DELETED CHANNEL HANGER AND RAN FURRING CHANNEL THROUGH TO DECKHEAD.						
16	A (CONT'D)	23. INDICATED GAGE OF DRAFT STOP AND HOW INSTALLED (DETAIL "16-B")						
		24. REVISED FILLER IN DETAIL "16-A" TO RUN TO DK. SHOE						
18		25. ADDED NOTE TO DETAILS "18-A" & "18-B"						
20		26. INDICATED THAT HANGERS SHALL BE TACKWELDED TO CHANNEL FURRING AND NOTED SPACING (DETAILS "20-B" & "20-C")						
		27. REVISED FILLER IN DETAIL "20-A" TO RUN TO DK. SHOE						
		28. INDICATED METHOD OF SECURING RAT-PROOFING (DETAIL "20-A")						
21		29. ADDED NOTE TO DETAIL "21-C"						
		30. REVISED NOTES #1, 2 & 3						
		31. ADDED NOTES #6 & 7						
3		32. REVISED GENERAL NOTE #4 TO SUIT						
22-27		33. ADDED DETAILS "22-A", "23-B", "23-C", "23-D", "24-A", "25-A", "25-B", "27-A", "27-B" & "27-C" REVISIONS IN ACCORDANCE WITH J.J. HENRY LETTER 5589/533/AHS-538-70 DATED JULY 22, 1970.						
5		34. ADDED GENERAL NOTES 11 AND 12 TO CONFORM WITH U.S. COAST GUARD REQUIREMENTS.						
GEN.		35. REFERENCED DETAILS TO ITEM #34 ABOVE						
	B	1. PLAN REV. "A" APPROVED BY J.J. HENRY LTR. 5589/533/JUM-527-70, 11/19/70	1-12-71 A.J.V.				2/17/71	5589/533/JUM-30-71
3		2. ADDED REFERENCE #8						
3		3. REVISED GEN. NOTE #9						
16		4. ADDED NOTE TO SECTION "16-B" ABOVE REVISIONS DONE IN ACCORDANCE WITH GEN. DYNAMICS LETTER 320A/533/(11)/JNM/AND/RMS/56122, DATED OCT 2, 1970.						
5		5. REVISED CEILING IN TYPICAL STATEROOM						
28 & 29		6. ADDED PLAN "28-B" & SECT. "29-A" ALTERATIONS 5 & 6 AS PER DEVELOPMENT CHANGE						
25		7. CHANGED DIMENSION OF SHOWER WING IN DETAIL "25-A" TO 6'-0" ABOVE CURB						
28		8. ADDED SECT. "28-A"						
23		9. NARROWED COVER STRIP IN SECTION "23-B"						
29		10. ADDED SECT. "29-B"						
5		11. ADDED NOTE THAT F.B. COAMING IS CONTINUOUS IN TYPICIAL STATEROOM						
6-9		12. INDICATED EXTENT OF DECK SHOE IN DETAILS "6-A", "6-C", "8-C", "8-D" "9-B", "9-C" & "9-D" REVISIONS AS PER J.J. HENRY LETTER 5589/533/JUM-527-70 DATED 11/19/70						
3		13. REVISED GEN. NOTE #10 TO SUIT U.S.C.G. REQUIREMENTS						
11 & 20	C	1. REVISED DET. "11-B", AND DELETED RAT-PROOFING & ALL REFERENCE TO RAT-PROOFING IN DET. "20-A", IN ACCORDANCE WITH U.S.P.H.S. HANDBOOK ON SANITATION OF VESSELL CONSTRUCTION PAGE 50, PARAGRAPH (E).	6/10/71 A.J.V.				14 JUN 1971	
8		2. ADDED 3" FLAT BAR TO DETAIL "8-C" AS ALTERNATE TO DETAIL "6-C"						
23, 24	D	1- ADDED TAB TO LATCH SCREW ON HINGED ACCESS PANELS FOR VENT FIRE DAMPERS - SECTION 23-D. SOURCE: ITEM #1 INCORP. AEA # S-1067 LYKES	3/22/72 A.J.V.					
29-C	E	1. ADDED DET. 29-C FOR CUT-OUT FOR ELECTRICAL BOXES. SOURCE: DES CORRECTION	8/8/72 A.J.V.					

REVISIONS	O	A	B	C	D	E
TO					2 22 2	8 8 2
LYKES N.O.					1	1
M.A. (WASH)					1	1
M.A. (YARD)					1	1
J.J. HENRY (YARD)					1	1
J.J. HENRY (HOME)					2	2
ABS YD					1	1
USCG YD					1	1
USPHS						
871					6	6
872						
873						
874						
875						
876						
414 Q-LD 108					1	1
866					1	1
TOTAL NRO'S FS						
TOTAL NRO'S HS					16	16
TOTAL RO						

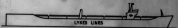
SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	E	[illegible]	800	4	
			820	5	
			826	12	
			829		
			830	7	
			841		
			842		
			843	1	
			844	5	
			899		
			LIBRARY	3	
			TOTAL	37	

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30574-15x01

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN A.J.O.
DSGNR
SUPV
ENGR

TYPICAL
JOINER DETAILS

APPROVED DATE 6-17-70
R.E. Jacobson
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S33-1-4	E

SCALE: FULL
SHEET 1 OF 1

APPROVAL LTR DATED
ABS
USCG LTR. 1/20/71
USPHS NOV 24, 1970

OWNER APPROVAL LTR. DATED 7/22/70

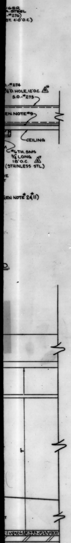
A.V.M. CORPORATION
JAMESTOWN METAL DIVISION
P.O. BOX I RONKONKOMA, L.I., N.Y. 11779

JMD DWG. Nº 9560-JD-1 ALT. C

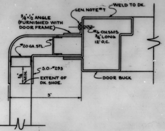
AREA = SQ FT

DWG. NO. 30574-15x01
Q div DWG NO. 30574-15x01

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-533-1-4 GD NO.30574-15x01 FRAME 1 ② 3 4

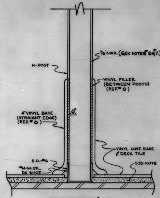


...GER
...A. STEEL
...-#276)
...ST. 4'-0" O.C.)
...-#274
3/4" D. HOLE, 12" O.C.
S.O.-#273
...EN. NOTE #9
CEILING
#6 TH. SMS 3/4" LONG 18" O.C. (STAINLESS STL.)
...GEN NOTE #24 & 11)



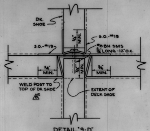
GEN. NOTE #7
WELD TO DK.
3/4"×1/2" ANGLE (FURNISHED WITH DOOR FRAME)
#6 OH. SMS. 3/4" LONG 12" O.C.
#20 GA. STL.
S.O.-#293
3/4" MIN.
EXTENT OF DK. SHOE.
DOOR BUCK
5"

DETAIL "13-D"
TYPICAL METHOD OF SECURING
DOOR BUCK TO 5" CORNER CONNECTION



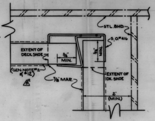
H-POST
7/8" MAR. (GEN NOTES #24 & 11)
VINYL FILLER (BETWEEN POSTS) (REF. #8)
4" VINYL BASE (STRAIGHT EDGE) (REF. #8)
VINYL COVE BASE & DECK TILE
SUB-KOTE
S.O.-#6
#14 GA. STL. DK. SHOE

BASE SECTION "11-C"
THRU 7/8" DIV JOINER BHD.



DK. SHOE
S.O.-#15
S.O.-#19
#8 BH. SMS 1/2" LONG 12" O.C.
3/4" MIN.
3/4" MIN.
WELD POST TO TOP OF DK. SHOE
EXTENT OF DECK SHOE

DETAIL "9-D"
TYP CROSS CONNECTION

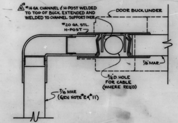


STL. BHD.
S.O.-#416
EXTENT OF DECK SHOE
3/4" MIN.
(GEN NOTE #2 & #12)
7/8" MAR.
EXTENT OF DK. SHOE
2" (MIN.)

DETAIL "8-D"
INSIDE CORNER
7/8" LINING

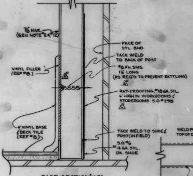
7/8" M...
(GEN. N...
WELD PO...
TO DECK...

DET...
TYP. OUTSI...



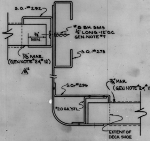
#14 GA. CHANNEL & H-POST WELDED TO TOP OF BUCK. EXTENDED AND WELDED TO CHANNEL SUPPORT OVER.
DOOR BUCK UNDER
#20 GA. STL.
H-POST
7/8" MAR.
3/4" D. HOLE FOR CABLE (WHERE REQ'D)
7/8" MAR (GEN NOTE #24 & #11)

DETAIL "13-C"
OVERHEAD SECTION



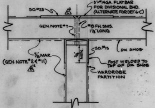
7/8" MAR. (GEN NOTE #24 & #12)
FACE OF STL. BHD.
TACK WELD TO BACK OF POST
#8 FH. SMS. 1 1/2" LONG (AS REQ'D. TO PREVENT RATTLING)
VINYL FILLER (REF. #8)
RAT-PROOFING, #18 GA. STL. 6" HIGH IN WORKROOMS & STOREROOMS. S.O.-#298
4" VINYL BASE & DECK TILE (REF. #8)
TACK WELD TO SHOE & POST (IN FIELD)
S.O.-#6
#14 GA. STL. DK. SHOE

BASE SECTION "11-B"
THRU 7/8" JOINER LINING



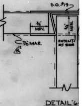
S.O.-#292
3/4" MIN.
#8 BH. SMS 1/2" LONG-12" O.C. GEN. NOTE #7
S.O.-#273
7/8" MAR. (GEN NOTE #24 & #12)
S.O.-#296
7/8" MAR. (GEN NOTE #24 & #12)
#20 GA. STL.
EXTENT OF DECK SHOE

DETAIL "9-C"
TYPICAL LINING RETURN
(FOR OFFSET IN JOINER LIN.)



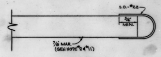
S.O.-#25
5/16"×#14 GA. FLAT BAR FOR DIVISIONAL BHD. (ALTERNATE FOR DET. 6-C)
GEN. NOTE #7
#8 FH. SMS. 1 1/2" LONG
S.O.-#15
DK SHOE
7/8" MAR. (GEN NOTE #24 & #11)
3/4" MIN.
POST WELDED TO TOP OF DK. SHOE
WARDROBE PARTITION

DETAIL "8-C"
METHOD OF SECURING
WARDROBE PARTITION



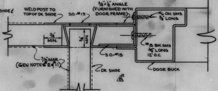
S.O. #19
3/4" MIN.
3/4" MIN.
7/8" MAR.
EXTENT OF SHOE

DETAIL "6-...
7/8" "T" CONNEC...
FOR ALTERNATE SEE ...



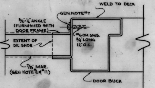
S.O.-#22
3/4" MIN.
7/8" MAR. (GEN NOTE #24 & #11)

DETAIL "13-B"
BULLNOSE CONNECTION TO 7/8" MAR.



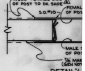
WELD POST TO TOP OF DK. SHOE
S.O.-#19
3/4"×1/2" ANGLE (FURNISHED WITH DOOR FRAME)
#6 OH. SMS. 3/4" LONG
3/4" MIN.
#8 BH. SMS 1/2" LONG 12" O.C.
S.O.-#13
7/8" MAR. (GEN NOTE #24 & #11)
DK. SHOE
DOOR BUCK

DETAIL "9-B"
TYPICAL METHOD OF SECURING
DOOR BUCK TO "T" POST



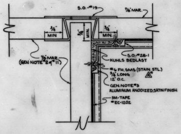
WELD TO DECK
GEN. NOTE #7
3/4"×1/2" ANGLE (FURNISHED WITH DOOR FRAME)
#6 OH. SMS. 3/4" LONG 12" O.C.
EXTENT OF DK. SHOE
7/8" MAR. (GEN NOTE #24 & #11)
DOOR BUCK

DETAIL "8-B"
TYPICAL METHOD OF SECURING
DOOR BUCK TO 7/8" MAR.



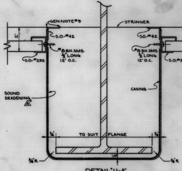
WELD FEMALE SIDE OF POST TO DK. SHOE
S.O. #10
FEMAL... OF POS...
MALE ... OF POS...
7/8" MAR... (GEN NOT...

DETAIL "6...
TYPICAL H-...
7/8" DIV. B...



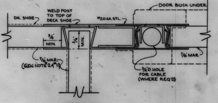
S.O.-#19
7/8" MAR.
3/4" MIN
3/4" MIN.
7/8" MAR. (GEN NOTE #24 & #11)
S.O.-#28-1
KUHLS BEDLAST
#4 FH. SMS (STAIN. STL.) 3/8" LONG 12" O.C.
GEN. NOTE #3 ALUMINUM ANODIZED, SATIN FINISH
3M-TAPE #EC-1202

DETAIL "13-A"
METHOD OF SEALING STALL
IN WAY OF JOINER POST



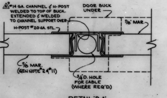
GEN NOTE #9
STRINGER
S.O.-#42
S.O.-#42
#8 BH. SMS. 1/2" LONG 12" O.C.
#8 BH. SMS. 1/2" LONG 12" O.C.
S.O.-#292
S.O.-#292
SOUND DEADENING
CASING
TO SUIT
FLANGE
3/4" R
3/4" R

DETAIL "11-A"
TYPICAL CASING FOR WEB
IN PASSAGE SCALE: 6"=1'-0"



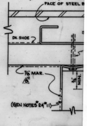
DOOR BUCK UNDER
DK. SHOE
WELD POST TO TOP OF DECK SHOE
#20 GA. STL.
3/4" MIN.
3/4" MIN.
7/8" MAR.
7/8" MAR. (GEN NOTE #24 & #11)
3/4" D. HOLE FOR CABLE (WHERE REQ'D)

DETAIL "9-A"
OVERHEAD SECTION



#14 GA. CHANNEL & H-POST WELDED TO TOP OF BUCK. EXTENDED & WELDED TO CHANNEL SUPPORT OVER
DOOR BUCK UNDER
H-POST #20 GA. STL.
7/8" MAR.
7/8" MAR. (GEN NOTE #24 & #11)
3/4" D. HOLE FOR CABLE (WHERE REQ'D)

DETAIL "8-A"
OVERHEAD SECTION



FACE OF STEEL B...
DK. SHOE
7/8" MAR.
3/4" MIN.
(GEN NOTES #24 & #11)

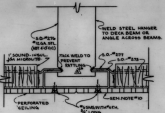
DETAIL "...
METHOD OF ...
7/8" DIV. BHD. ...

241-533-1-4 E 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-533-1-4 GD NO.30574-15X01 FRAME 1 2 ③ 4

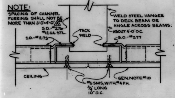
20 19 18 17 16 15 14 13



WELD STEEL HANGER TO DECK BEAM OR ANGLE ACROSS BEAMS.
S.O.-#276 #12 GA. STL. (ABT. 4'-0" O.C.)
1" SOUND-INSUL. 1/4 MA MICROLITE
TACK WELD TO PREVENT RATTLING
S.O.-#277
S.O.-#273
PERFORATED CEILING
#6 SMS. WITH #4 F.H. 3/8" LONG 10" O.C.
GEN. NOTE #10

CEILING SECT. "20-C"
THRU JOINT IN "TYPE V" ACOUSTIC CEILING
(TYPICAL IN OFFICERS DINING RM., CREW MESS & REC. RM.)

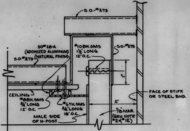
NOTE:
SPACING OF CHANNEL FURRING SHALL NOT BE MORE THAN 2'-0"-4'-0".



WELD STEEL HANGER TO DECK BEAM OR ANGLE ACROSS BEAMS. ABOUT 4'-0" O.C.
S.O.-#276 #12 GA. STL.
S.O.-#273
TACK WELD
S.O.-#277
CEILING
#6 SMS. WITH #4 F.H. 3/8" LONG 10" O.C.
GEN. NOTE #10

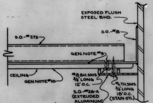
CEILING SECT. "20-B"
THRU JOINT IN "TYPE IV" CEILING

SEE SECTION "15-A" FOR INTERMEDIATE FURRING CONNECTION



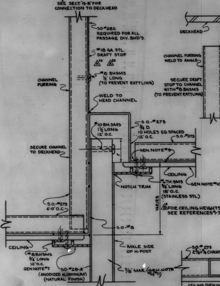
S.O.-#273
SO #28-A (ADONIZED ALUMINUM) (NATURAL FINISH)
S.O.-#273
#10 BH. SMS 1 1/2" LONG 12" O.C.
S.O.-#275
CEILING
#8 BH. SMS 3/4" LONG 12" O.C.
#6 TH. SMS 3/4" LONG 18" O.C.
FACE OF STIFF. OR STEEL BHD.
MALE SIDE OF H-POST
7/16" MAR. (GEN. NOTE 2 & 12)

CEILING SECT. "18-D"
IN WAY OF JOINER LINING



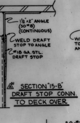
EXPOSED FLUSH STEEL BHD.
S.O.-#273
S.O.-#8
GEN. NOTE #9
CEILING
GEN. NOTE #10
#8 BH. SMS 3/4" LONG 12" O.C.
S.O.-#28-A (EXTRUDED ALUMINUM) (ANOD. NATURAL FINISH)
#6 TH. SMS 3/4" LONG 18" O.C. (STAIN. STL.)

CEILING SECT. "18-C"
IN WAY OF FLUSH STEEL BHD.



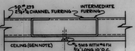
SEE SECT. "15-B" FOR CONNECTION TO DECKHEAD
SO #282 REQUIRED FOR ALL PASSAGE DIV. BHD'S.
#18 GA. STL. DRAFT STOP
#8 BHSMS 1/2" LONG (TO PREVENT RATTLING)
CHANNEL FURRING
WELD TO HEAD CHANNEL
#10 BH. SMS 1 1/2" LONG 12" O.C.
S.O.-#275 3/8" D. 10 HOLES EQ. SPACED 12" O.C.
S.O.-#273
SECURE CHANNEL TO DECKHEAD
GEN. NOTE #9
CEILING
NOTCH TRIM
#6 TH. SMS 3/4" LONG 18" O.C. (STAINLESS STL.)
GEN. NOTE #10
VARIES
FOR CEILING HEIGHTS SEE REFERENCES #-7
S.O.-#273 4'-0" O.C.
S.O.-#8
CEILING
#8 BH. SMS 3/4" LONG 12" O.C. GEN. NOTE #7
MALE SIDE OF H-POST
SO-#28-A (ANODIZED ALUMINUM) (NATURAL FINISH)
7/16" MAR. (GEN. NOTE 2 & 11)

HEAD SECTION "16-B"
WHERE CEILING HGT. VARIES



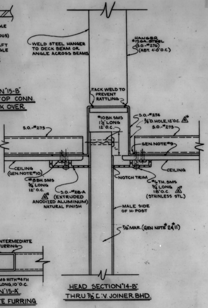
DECKHEAD
1 1/2" x 2" ANGLE (SO #8) (CONTINUOUS)
CHANNEL FURRING WELD TO ANGLE
WELD DRAFT STOP TO ANGLE
#18 GA. STL. DRAFT STOP
SECURE DRAFT STOP TO CHANNEL WITH #8 BHSMS (TO PREVENT RATTLING)

SECTION "15-B"
DRAFT STOP CONN. TO DECK OVER



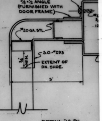
SO #273 2 1/2" x 1/2" CHANNEL FURRING
INTERMEDIATE FURRING
CEILING (GEN. NOTE)
#6 SMS WITH #4 FH 3/4" LONG, 10" O.C.

CEILING SECTION "15-A"
THRU INTERMEDIATE FURRING



WELD STEEL HANGER TO DECK BEAM OR ANGLE ACROSS BEAMS.
HANGER #12 GA. STEEL (S.O.-#276) (ABT. 4'-0" O.C.)
TACK WELD TO PREVENT RATTLING
#10 BH. SMS 1 1/2" LONG 12" O.C.
S.O.-#274 3/8" D. HOLE, 12" O.C.
S.O.-#275
S.O.-#273
GEN. NOTE #9
CEILING (GEN. NOTE #10)
#8 BH. SMS 3/4" LONG 12" O.C.
NOTCH TRIM
S.O.-#28-A (EXTRUDED ANODIZED ALUMINUM) NATURAL FINISH
#6 TH. SMS 3/4" LONG 18" O.C. (STAINLESS STL.)
CEILING
MALE SIDE OF H-POST
7/16" MAR. (GEN. NOTE 2 & 11)

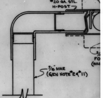
HEAD SECTION "14-B"
THRU 7/16" C.V. JOINER BHD.



3/4" x 1/2" ANGLE (FURNISHED WITH DOOR FRAME)
GEN. NOTE
#20 GA. STL.
S.O.-#293
MIN.
EXTENT OF DK. SHOE.
3"

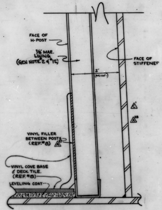
DETAIL "13-D"
TYPICAL METHOD OF SEC
DOOR BUCK TO 3" CORNER C

#14 GA. CHANNEL & H-POST WELDED TO TOP OF BUCK. EXTENDED AND WELDED TO CHANNEL SUPPORT OVER.



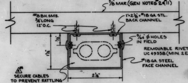
#20 GA. STL. H-POST
7/16" MAR (GEN NOTE 2 & 11)

DETAIL "13-C"
OVERHEAD SECTIO



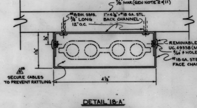
FACE OF H-POST
3/16" MAR. LINING (GEN NOTE 2 & 12)
FACE OF STIFFENER
2" (MIN.)
VINYL FILLER BETWEEN POSTS (REF. #8)
VINYL COVE BASE & DECK TILE. (REF. #8)
LEVELING COAT

BASE SECTION "20-A"
THRU SHELL



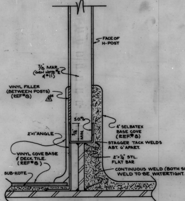
7/16" MAR (GEN NOTES 2 & 11)
#8 BH. SMS. 3/4" LONG 12" O.C.
1" x 2 1/2" x #18 GA. STL. BACK CHANNEL
9/64" Ø HOLES IN FIELD
REMOVABLE RIVET STUD UC 49338 (MIN. 2 EA. SIDE)
#18 GA. STEEL FACE CHANNEL
SECURE CABLES TO PREVENT RATTLING
2 1/4"

DETAIL "18-B"
CABLE CASING FOR SINGLE & DUPLEX RECEPTACLES



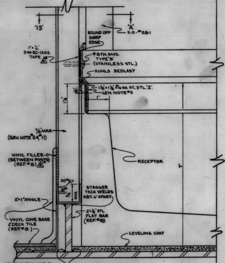
7/16" MAR (GEN NOTE 2 & 11)
#8 BH. SMS. 3/4" LONG 12" O.C.
1" x 4 1/2" x #18 GA. STL. BACK CHANNEL
REMOVABLE RIVET STUD UC 49338 (MIN. 2 EA. SIDE) 9/64" Ø HOLES IN FIELD
#18 GA. STEEL FACE CHANNEL
SECURE CABLES TO PREVENT RATTLING
4 1/2"

DETAIL "18-A"
CABLE CASING FOR MULTICOUPLER RECEPTACLES



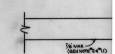
FACE OF H-POST
7/16" MAR. (GEN NOTE 2 & 11)
VINYL FILLER (BETWEEN POSTS) (REF. #8)
2" x 1" ANGLE
6" SELBATEX BASE COVE (REF. #8)
STAGGER TACK WELDS ABT. 6" APART.
2" x 1/4" STL. FLAT BAR
CONTINUOUS WELD (BOTH SIDES) WELD TO BE WATERTIGHT.
VINYL COVE BASE & DECK TILE. (REF. #8)
SUB-KOTE

BASE SECTION "16-A"
BETWEEN T/S & ST. RM. OR PASSAGE



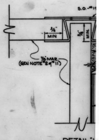
"13"
"A"
S.O.-#28-1
ROUND OFF SHARP EDGE
1" x 1/4" 3-M-EC-1202 TAPE
#8 TH. SMS. TYPE "B" (STAINLESS STL.)
KUHLS BEDLAST
1 1/2" x 1 1/2" #16 GA. ST. STL. "Z"
GEN. NOTE #3
7/16" MAR (GEN NOTE 2 & 11)
RECEPTOR
VINYL FILLER (BETWEEN POSTS) (REF. #8)
2" x 1" ANGLE
STAGGER TACK WELDS ABT. 6" APART
2" x 1/4" STL. FLAT BAR (REF. #8)
VINYL COVE BASE & DECK TILE (REF. #8)
LEVELING COAT
CONTINUOUS WELD (BOTH SIDES) WATERTIGHT.

BASE SECTION "14-A"
THRU 7/8" DIV. BHD. IN WAY SHOWER RECEPTOR



7/16" MAR. (GEN NOTE 2 & 11)

DETAIL "13-B"
BULLNOSE CONNECTIO

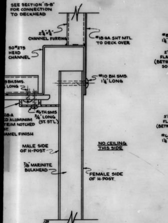


S.O.-#
3/4" MIN
7/16" MAR (GEN NOTE 2 & 11)

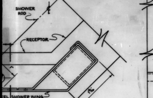
DETAIL "1
METHOD OF SE
IN WAY OF

241-533-1-4 E 3

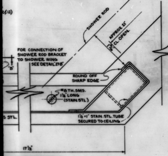
GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-533-1-4 GD NO.30574-15x01 FRAME 1 2 3 ④ 5


SEE SECTION "15-B" FOR CONNECTION TO DECKHEAD
2¾"×¾" CHANNEL FURRING
#18 GA. SHT. MTL. TO DECK OVER
SO #275 HEAD CHANNEL
#10 BH. SMS. 1¼" LONG
#6 TH. SMS ¾" LONG (ST. ST'L.)
28-A
D ALUMINUM
TRIM NOTCHED
AMEL FINISH
NO CEILING THIS SIDE
MALE SIDE OF H-POST
⅞" MARINITE BULKHEAD
FEMALE SIDE OF H-POST

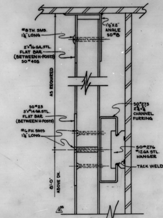
DETAIL "27-C"
HEAD CONNECTION
JOINER DIVISIONAL BULKHEAD


SHOWER ROD
RECEPTOR
EL SHOWER WING
1⅜"

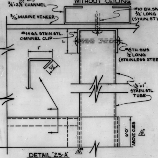
"27-B"
F SECURING
D TO WING


SHOWER ROD
APPROX 21" CL. OPEN.
FOR CONNECTION OF SHOWER ROD BRACKET TO SHOWER WING SEE DETAIL "27-B"
ROUND OFF SHARP EDGE
#8 TH. SMS. 1¼" LONG (STAIN. STL.)
S STL.
1½"×1" STAIN. STL. TUBE SECURED TO CEILING
17½"

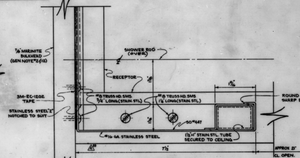
WING DETAIL "27-A"
CORNER SHOWER


#8 TH. SMS. 1¼" LONG
1½"×2" ANGLE SO #8
2"×#16 GA. STL. FLAT BAR (BETWEEN H-POSTS) SO #405
AS REQUIRED
SO #23 3"×#14 GA. STL. FLAT BAR (BETWEEN H-POSTS)
SO #275 2¾"×¾" CHANNEL FURRING
#6 FH. SMS 1¼" LONG
SO #276 #12 GA. STL. HANGER
TACK WELD
8'-0" ABOVE DK.

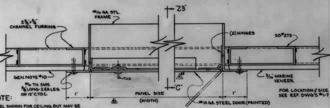
DETAIL "25-B"
METHOD OF EXTENDING
JOINER LINING IN AREAS
WITHOUT CEILING


SO #273 ¾"×2¾" CHANNEL
3/16" MARINE VENEER
#10 BH. SMS. ¾" LONG (STAIN. ST'L.)
#14 GA. STAIN STL. CHANNEL CLIP
#8 TH. SMS. ½" LONG (STAINLESS STEEL)
1"
½"
1½"×1" STAIN. STL. TUBE
6'-0" ABOVE CURB

DETAIL "25-A"
METHOD OF SECURING
TUBE TO CEILING

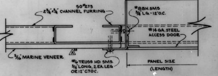

⅞" MARINITE BULKHEAD (GEN. NOTE #2 & 12)
SHOWER ROD (OVER)
RECEPTOR
3M-EC-1202 TAPE
STAINLESS STEEL "Z" NOTCHED TO SUIT
#8 TRUSS HD. SMS. ¾" LONG (STAIN. STL.)
#8 TRUSS HD. SMS 1¼" LONG (STAIN. STL.)
1 11/16"
1⅛"
ROUND OFF SHARP EDGE
SO #447
#16 GA. STAINLESS STEEL
1½"×1" STAIN. STL. TUBE SECURED TO CEILING
7½"
APPROX 21" CL. OPEN.

WING DETAIL "24-A"
SQUARE SHOWER

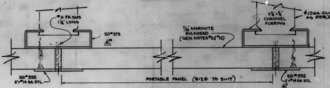

"23"
"C"
#16 GA. STL. FRAME
2¾"×¾" CHANNEL FURRING
(2) HINGES
SO #273
GEN. NOTE #10
#6 TH. SMS. ¾" LONG-2 EA. LEG OR 12" C. TO C.
TAB
3/16" MARINE VENEER
1"
PANEL SIZE (WIDTH)
#14 GA. STEEL DOOR (PAINTED)
FOR LOCATION & SIZE SEE REF. DWG'S #1-7

NOTE:
PANEL SHOWN FOR CEILING, BUT MAY BE USED IN A SIMILIAR MANNER FOR JOINER LINING.

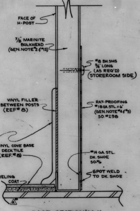
SECTION "23-D"
THRU HINGED ACCESS PANEL


SO #273 2¾"×¾" CHANNEL FURRING
#8 BH. SMS ¾" LG.-12" O.C.
#14 GA. STEEL ACCESS DOOR
3/16" MARINE VENEER
#6 TRUSS HD. SMS. ¾" LONG, 2 EA. LEG OR 12" C. TO C.
PANEL SIZE (LENGTH)

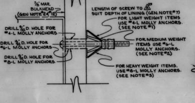
SECTION "23-C"


#6 FH. SMS 1¼" LONG
SO #273
⅞" MARINITE BULKHEAD (GEN. NOTES #2 & #12)
2¾"×¾" CHANNEL FURRING
#12 GA. CLIPS AS REQ'D.
SO #552 2"×#14 GA. STL.
PORTABLE PANEL (SIZE TO SUIT)
SO #552 2"×#14 GA. STL.

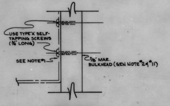
DETAIL "23-B"
METHOD OF FASTENING.
PORTABLE PANEL


FACE OF H-POST
⅞" MARINITE BULKHEAD (GEN. NOTE #2 & #12)
#8 BH. SMS ¾" LONG (AS REQ'D) (STOREROOM SIDE)
VINYL FILLER BETWEEN POSTS (REF #8)
RAT-PROOFING #18 GA. STL.×6" (GEN. NOTE #4 & #5) SO. #298
VINYL COVE BASE & DECK TILE (REF. #8)
#14 GA. STL. DK. SHOE SO. #6
SPOT WELD TO DK. SHOE
LEVELING COAT

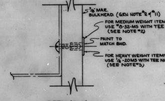
BASE SECTION "22-A"
RATPROOFING
⅞" DIV. JOINER BHD.
(STOREROOMS)


⅞" MAR. BULKHEAD (GEN NOTE #2 & #12)
LENGTH OF SCREW TO SUIT DEPTH OF LINING (GEN. NOTE #7)
FOR LIGHT WEIGHT ITEMS USE #4-L MOLLY ANCHORS. (SEE NOTE #1)
DRILL 9/32" D. HOLE FOR #4-L MOLLY ANCHORS
DRILL 13/32" D. HOLE FOR #6-L MOLLY ANCHORS
DRILL 15/32" D. HOLE FOR #8-L MOLLY ANCHORS
FOR MEDIUM WEIGHT ITEMS USE #6-L MOLLY ANCHORS. (SEE NOTE #2)
FOR HEAVY WEIGHT ITEMS. USE #8-L MOLLY ANCHORS. (SEE NOTE #3)

DETAIL "21-C"
METHOD OF SECURING
LIGHT, MEDIUM & HEAVY WT. ITEMS
TO JOINER LINING


USE TYPE "A" SELF-TAPPING SCREWS (¾" LONG)
SEE NOTE #1
⅞" MAR. BULKHEAD (GEN NOTE #2 & #11)

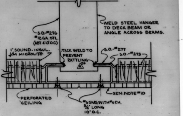
DETAIL "21-B"
METHOD OF SECURING
LIGHT WEIGHT ITEMS
TO ⅞" DIV. JOINER BHD.


⅞" MAR. BULKHEAD. (GEN NOTE #2 & #11)
FOR MEDIUM WEIGHT ITEMS USE #8-32-MS WITH TEE NUT (SEE NOTE #2)
PAINT TO MATCH BHD.
FOR HEAVY WEIGHT ITEMS USE ¼"-20MS WITH TEE NUT (SEE NOTE #3)

DETAIL "21-A"
METHOD OF SECURING
MEDIUM & HEAVY WEIGHT ITEMS
TO ⅞" DIV. JOINER BHD.

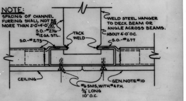
NOTES
(FOR DET'S 21-A, B & C)

1. LIGHT WEIGHT ITEMS: SHALL INCLUDE *ROBE HOOKS, WARDROBE FITTING, SOAP DISH TOWEL BARS, SHELVES, CURTAIN ROD, FLANGES, *HOLD BACK HOOKS, TOILET PAPER HOLDERS PAPER TOWEL DISPENSERS, *BOTTLE OPENERS, ETC. ALSO INCLUDE MIRRORS, METAL LOCKERS, AND OTHER FURNITURE ADEQUATELY SECURED ON FOUR-SIDED AND SUB-BASES. ALSO SEE NOTE #6
2. MEDIUM WEIGHT ITEMS: SHALL INCLUDE KEY LOCKERS, RADIO SHELF, BULLETIN BOARD, GRAB BARS, ETC. ALSO SOME NORMALLY HEAVY ITEMS WHICH HAVE OTHER MEANS OF SUPPORT SUCH AS TRANSOMS, DESKS, BOOKCASES, CHIFFONIERS, SIDEBOARDS AND ALL OTHER ITEMS HAVING FRONT LEG SUPPORTS.
3. HEAVY WEIGHT ITEMS: SHALL INCLUDE LOG DESKS, WALL DESKS, LAV.'S, SLOP SINKS ETC. LAVATORIES IN CREW QTR'S THAT ARE BACK-TO-BACK SHALL BE SUPPORTED BY THROUGH BOLTING.
4. BERTH LIGHTS AND OTHER ELECTRICAL ITEMS: WHICH REQUIRE CONCEALED WIRING SHALL BE SECURED DIRECT TO STEEL JOINER POSTS OR AS PER DETAIL FOR LINING.
5. POWER & LIGHTING PANELS: SHALL HAVE STRUCTURAL SUPPORTS INDEPENDENT OF JOINER WORK.
6. ITEMS MARKED WITH ASTERISK (*) SHALL HAVE AT LEAST ONE T-NUT, OR MOLLY BOLT.
7. ALL EXPOSED SCREWS SHALL BE PAINTED TO MATCH BULKHEAD PANELS OR POSTS.


S.O. #276 #12 GA. STL. (ABT. 4'-0" O.C.)
WELD STEEL HANGER TO DECK BEAM OR ANGLE ACROSS BEAMS.
1" SOUND-INSUL. 1/M MICROLITE
TACK WELD TO PREVENT RATTLING
S.O. #277
S.O. #273
PERFORATED CEILING
#6 SMS. WITH #4 F.H. ¾" LONG 10" O.C.
GEN. NOTE #10

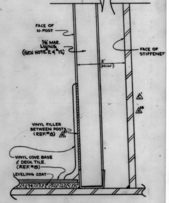
CEILING SECT. "20-C"
THRU JOINT IN "TYPE V" ACOUSTIC CEILING
(TYPICAL IN OFFICERS DINING RM., CREW MESS & REC. RM)

NOTE:
SPACING OF CHANNEL FURRING SHALL NOT BE MORE THAN 2'-0"×4'-0"


S.O. #276 #12 GA. STL.
WELD STEEL HANGER TO DECK BEAM OR ANGLE ACROSS BEAMS.
ABOUT 4'-0" O.C.
TACK WELD
S.O. #273
S.O. #277
CEILING
GEN. NOTE #10
#6 SMS, WITH #4 F.H. ¾" LONG 10" O.C.

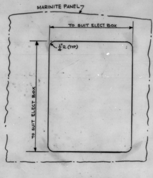
CEILING SECT. "20-B"
THRU JOINT IN "TYPE IV" CEILING

SEE SECTION "15-A" FOR INTERMEDIATE FURRING CONNECTION

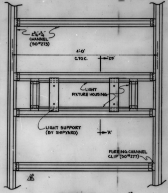

FACE OF H-POST
⅞" MAR. LINING (GEN NOTE 2 & #12)
FACE OF STIFFENER
2" (MIN.)
VINYL FILLER BETWEEN POSTS (REF. #8)
VINYL COVE BASE & DECK TILE. (REF. #8)
LEVELING COAT

BASE SECTION "20-A"
THRU SHELL

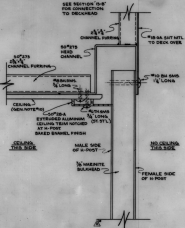
30 29 28 27 26 25 24


MARINITE PANEL
TO SUIT ELECT BOX
1/2" R (TYP)
TO SUIT ELECT BOX

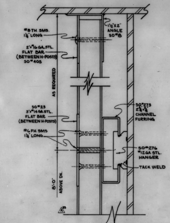
DETAIL 29-C
BHD CUT-OUT FOR ELECTRICAL BOXES


2 3/8"×3/8" CHANNEL (SO#273)
4'-0" C.TO.C.
"29"
LIGHT FIXTURE HOUSING
LIGHT SUPPORT (BY SHIPYARD)
"A"
FURRING CHANNEL CLIP (SO#277)

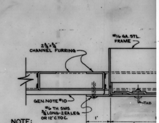
PLAN "28-B"
TYPICAL FRAMING
IN WAY OF CEILING FIXTURE
SCALE: 1 1/2" = 1'-0"


SEE SECTION "15-B" FOR CONNECTION TO DECKHEAD
2 3/8"×3/8" CHANNEL FURRING
#18 GA. SHT MTL. TO DECK OVER
SO#275 HEAD CHANNEL
SO#273 2 3/8"×3/8" CHANNEL FURRING
#8 BH.SMS. 3/8 LONG
#10 BH. SMS. 1 1/4" LONG
CEILING (GEN. NOTE#10)
SO#28-A EXTRUDED ALUMINIUM CEILING TRIM NOTCHED AT H-POST. BAKED ENAMEL FINISH
#6 TH.SMS 3/4" LONG (ST. STL.)
CEILING THIS SIDE
NO CEILING THIS SIDE
MALE SIDE OF H-POST
7/8" MARINITE BULKHEAD
FEMALE SIDE OF H-POST

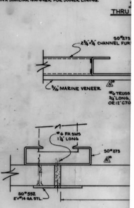
DETAIL "27-C"
HEAD CONNECTION
JOINER DIVISIONAL BULKHEAD

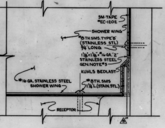

#8 TH. SMS. 1 1/4" LONG
1 1/2"×2" ANGLE SO#8
2"×#16 GA. STL. FLAT BAR (BETWEEN H-POSTS) SO#405
AS REQUIRED
SO#25 3"×#14 GA. STL. FLAT BAR (BETWEEN H-POSTS)
#6 FH. SMS 1 1/4" LONG
SO#273 2 3/8"×3/8" CHANNEL FURRING
SO#276 12 GA. STL. HANGER
TACK WELD
8'-0" ABOVE DK.

DETAIL "25-B"
METHOD OF EXTENDING
JOINER LINING IN AREAS
WITHOUT CEILING

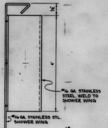

2 3/8"×3/8" CHANNEL FURRING
#16 GA. STL. FRAME
GEN. NOTE#10
#6 TH SMS 3/4" LONG-2 EA. LEG OR 12" C.TO.C.
1"
TAB

NOTE:
PANEL SHOWN FOR CEILING, BUT MAY BE USED IN A SIMILIAR MANNER FOR JOINER LINING.

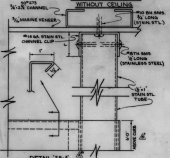

THRU
SO#273 2 3/8"×3/8" CHANNEL FUR
3/16" MARINE VENEER
#6 TEUSS 3/4" LONG OR 12" C.TO.C.
#6 FH. SMS 1 1/4" LONG
SO#275
SO#552 2"×#14 GA. STL.


3M-TAPE #EC-1202
SHOWER WING
#8 TH. SMS. TYPE "B" (STAINLESS STL) 3/4" LONG
1 1/8"×1 1/8"×#16 GA. "Z" STAINLESS STEEL GEN. NOTE#3
KUHLS BEDLAST
#16 GA. STAINLESS STEEL SHOWER WING
#8 TH. SMS 1 1/4" L (STAIN. STL.)
RECEPTOR

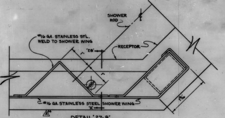
SECTION "29-B"
METHOD OF SECURING
SHOWER WING TO RECEPTOR


#16 GA. STAINLESS STEEL. WELD TO SHOWER WING
#16 GA. STAINLESS STL. SHOWER WING

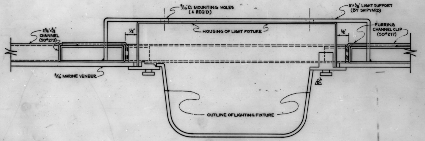
SECTION "28-A"


SO#273 3/8"×2 3/8" CHANNEL
3/16" MARINE VENEER
#10 BH. SMS. 3/4" LONG (STAIN. STL.)
#14 GA. STAIN STL. CHANNEL CLIP
1"
#8 TH. SMS 1/2" LONG (STAINLESS STEEL)
1 1/2"×1" STAIN. STL. TUBE
6'-0" ABOVE CURB

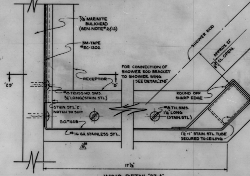
DETAIL "25-A"
METHOD OF SECURING
TUBE TO CEILING


SHOWER ROD
#16 GA. STAINLESS STL. WELD TO SHOWER WING
RECEPTOR
"28"
#16 GA. STAINLESS STEEL SHOWER WING
"A"

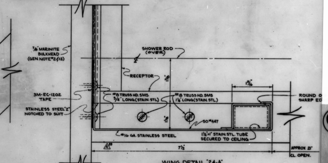
DETAIL "27-B"
METHOD OF SECURING
SHOWER ROD TO WING


5/16" D. MOUNTING HOLES (4 REQ'D)
3"×1/8" LIGHT SUPPORT (BY SHIPYARD)
2 3/8"×3/8" CHANNEL (SO#273)
1/2"
HOUSING OF LIGHT FIXTURE
FURRING CHANNEL CLIP (SO#277)
3/16" MARINE VENEER
OUTLINE OF LIGHTING FIXTURE

SECTION "29-A"
TYPICAL SECTION THRU FURRING
IN WAY OF CEILING FIXTURE


7/8" MARINITE BULKHEAD (GEN. NOTE#2 & 12)
3M-TAPE #EC-1202
SHOWER ROD
APPROX 21" CL. OPEN.
RECEPTOR
FOR CONNECTION OF SHOWER ROD BRACKET TO SHOWER WING SEE DETAIL 27-B
"29"
#8 TEUSS HD. SMS. 3/4" LONG (STAIN. STL.)
ROUND OFF SHARP EDGE
STAIN. STL. "Z" NOTCH TO SUIT
#8 TH. SMS. 1 1/4" LONG (STAIN. STL.)
SO#448
#16 GA. STAINLESS STL.
1 1/2"×1" STAIN. STL. TUBE SECURED TO CEILING
17 1/2"

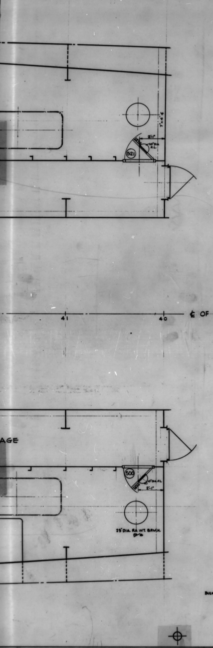
WING DETAIL "27-A"
CORNER SHOWER


7/8" MARINITE BULKHEAD (GEN. NOTE#2 & 12)
SHOWER ROD (OVER)
RECEPTOR
3M-EC-1202 TAPE
#8 TEUSS HD. SMS. 3/4" LONG (STAIN. STL.)
#8 TEUSS HD. SMS 1 1/4" LONG (STAIN. STL.)
1 3/16"
ROUND OFF SHARP EDGE
STAINLESS STEEL "Z" NOTCHED TO SUIT
SO#447
#16 GA. STAINLESS STEEL
1 1/2"×1" STAIN. STL. TUBE SECURED TO CEILING
7 1/2"
APPROX 21" CL. OPEN.

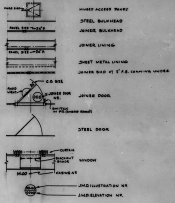
WING DETAIL "24-A"
SQUARE SHOWER

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-533-1-4 GD NO. 30574-15x01 FRAME 1 2 3 4
⑤

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-533-01-06GD NO. 30574-20×01FRAME ① 2 3 4



JOINER SYMBOLS



ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION	VENDOR NO.
23	CLG FIXT, 100W, MARINE UTILITY	PAULUHN #1757BMT
65	CLG FIXT. FLUOR, TYPE 1 (2) 20W. RECESSED N.W.T.	SIMES #45539
67	MIRROR LIGHT, FLUOR., TYPE 3, 15W W/SW & RECEPT	SIMES #48194
68	MIRROR LIGHT, FLUOR, TYPE 3, 15 W, WITH RECP	SIMES #48194
69	CORNICE LIGHT, FLUOR, TYPE 13, 40W, SURF. MTD. NWT	SIMES #46377
74	CLG FIXT. FLUOR, TYPE 15 (2) 20W RECESSED N.W.T	SIMES #46302
75	CLG FIXT. FLUOR, TYPE 15, (3) 20W RECESSED N.W.T	SIMES #47889
83	CLG FIXT. FLUOR, TYPE 26 (2) 20W SURFACE, D.P.	SIMES #48499
95	BERTH/LOUNGE CHAIR LIGHT INCAND. 30W	SIMES #47413
305	GEN. ALARM BELL (8")	HENSCHEL #20-163
306	RADIO POWER OUTLET BOX ASS'Y	COMM. RADIO - A22766
HTR EC	ELECTRIC CONVECTOR	CHROMALOX KSF MOD. C
T	THERMOSTAT	
HTR RD	REHEATER DIFFUSER	
OX 141	SW. & IND. LT. SURF MTD W.T.	PAULUHN 889
2P32	PWR PNL, SURFACE MTD, 6 CKT, 120V	WHITMOR H-964A
1L14	LTG PANEL FL. MTD 16 CKT 120V	WHITMOR H-965A
	RECEPTACLE	
X	SWITCH	
150	BKT FAN, 16" OSC.	PHIL RICH FAN CO DWG PRF-M-016

BULKHEADS
- T1 - PLASTIC, GREEN MISTLETOE, MICARTA # 91-M-07
- T3 - PLASTIC, AZTEC TAN, MICARTA # 90-M-70
- T6 - PLASTIC, GREY CATHAY, MICARTA # 81-M-04

TRIM
- F3 - PAINT; R-195 RENAISSANCE GREEN; DUPONT # IMG-266
- F5 - PAINT, R-170 GREY LEEK; DUPONT IMN-137
- F6 - PAINT, L106 ALMOND; DUPONT IMN-196

RESERVATIONS

~~1- CEILING LAYOUT PENDING RECEIPT OF ELECTRICAL & VENTILATION PLANS~~
~~2- DRINKING FOUNTAIN~~
~~3- LINING IN WAY OF PIPES IN STAIRHALL FRAMES 70-71 PORT~~

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1-PLAN REV. O-APPVD. BY J.J. HENRY LTR FILE 5589/533/AHS 388-70 DTD 7-23-70						
22-G		2-INDICATED SHELVING IN LINEN LKR.						
21-G		3-INDICATED SHELVING & SERVICE SINK IN STEWARDS LKR.						
9-B		4-ADDED REF NO. 10.						
14G, 16G & 18G		5-RELOCATED SHR. DRAINS IN SQUARE SHRS FROM 17" FROM BACK OF STALL TO 20"						
18-F		6-ADDED HEATER DIFFUSER ON INBOARD SIDE OF PASSAGE (P) FRS 65-66.						
13H TO 20H		7-REVISED LOCATION OF WINDOWS IN SR'S.						
		8-ITEMS 2 TO 8 MADE TO SUIT MARKED UP PRINTS FROM GD/Q.						
13H TO 20H		9-RELOCATED BERTH SHELVES IN SR'S						
10G		10-SEPERATED WASHER & DRYER IN CREW'S LAUNDRY.						
10 & 11 B		11-REVISED HANDS OF DESKS IN WATCHMAN STATIONS PES FRS 47-48.						
		12-REVISED LONGITUDINAL DIMENSION OF T/S IN CHIEF COOKS SR. FROM 5'-6" TO 5'-3".						
22H	A (CONT)	13. CORRECTED LOCATION OF J.D. # 502 FROM 14" TO 16"						
22G & 21G		14. INDICATED CEILING LAYOUT IN STEWARDS & LINEN LKRS.						
15G H TO 22G H		15. INDICATED CEILING HGTS IN QUARTERS						
15F		16. ADDED NOTE IN PASSAGE FR 60-61 - INDICATED REF. FOR HANDRAILS						
15H & 21H		17. INDICATED ACCESS PANELS TO SUIT PIPING MODULE 516.						
		18. ITEMS 9 THRU 16 MADE TO SUIT J.J.H. LTR FILE NO 5589/533/AHS 338-70 DTD 7-29-70						
		19. ADDED RESERVATION NO'S 1 & 2.						
	B	1. PLAN REV 'A' APPVD BY J.J. HENRY LTR FILE 5589/533/JUH-525-70 DTD NOV. 17, 1970						
13G TO 19G		2. A.C. VENT RISERS IN STATEROOMS ENCLOSED W/ MELAMINE PANELS						
20G		3. ADDED SIZE OF JOINER DOOR TO T/S IN SR. M-14.						
		4. ITEMS 1 THRU 3 OF ALT. 'B' MADE TO SUIT J.J.H. LTR. FILE 5589/533/JUH-525-70 DTD 11/17/70	2/22/71					
5 B C D E		5. ELECTRICAL SYMBOL LIST ADDED & ADDED GEN. NOTE NO 1.						
9FG TO 22FG		6. INDICATED ELEC. FIXTURES IN SR.'S & PASSAGES, ADDED HEIGHTS OF FIXTURES & RELEASED RES. NO 1.						
5B		7. ADDED THERMOSTAT TO ELEC. SYMBOL LIST.						
		8. ITEMS 5, 6, & 7 OF ALT 'B' MADE TO SUIT QSD. LTR FILE 320A/533 (11)/JNM/AND/RMS 56158 DTD OCT 9 1970, QSD. DWG NO 30516-603, REV 'D' & QSD. DWG NO 30506-603 REV 'A'.						
9FG TO 22FG		9. ADDED JMD. ILLUSTRATION & ELEV NO FOR BERTH SHELVES & W.B.'S. IN STATEROOMS						
16F		10. RECESSED LINING BEHIND DRINKING FOUNTAIN ELIMINATED TO SUIT DEVELOPMENT & RELEASED RES. NO 2.						
14H-16H		11. INDICATED HINGED ACCESS PNLS TO SUIT QSD DWG NO 30506-200.						
15F, 16F		12. INDICATED 18" × 6" REGISTERS BETWEEN FRS 60-61 & FRS 62-63 INBD. PASS. BHD. TO SUIT QSD. PLAN NO 30506-281 ALT. B & ADDED GEN NOTE 2						
18F, 20F		13. REVISED LINING INBD. PASS. BHD FRS 65-66 & FRS 67-68 TO ENCLOSE VENT DUCTS TO SUIT QSD DWG 30516-251 ALT. B.	A.J.V.					
6A, 13FH-22FH	C	1. ADDED FINISH SYMBOL LIST & INDICATED FINISH SYMBOLS IN COMPARTMENTS.						
10E-22E		2. ADDED GD/Q ZONE NUMBERS TO BODY OF PLAN.	A.J.V.					
9G		3. REVISED ARR'GT OF CREW LAUNDRY TO SUIT GD/Q DWG NO 30516-130, REVISED ELECTRICAL FIXTURES TO SUIT.						
21F		4. INDICATED 9" × 5½" VENT DUCT IN STAIRHALL FR 69+ TO SUIT GD/Q DWG NO 30606-230. REVISED JOINER LINING TO SUIT.						
13G		5. ADDED ACCESS OPENING IN MESSMAN NO 1 SR. FOR 2" A.E. TO SUIT GD/Q DWG NO 30506-200.						
5G, 14H, 16H, 18H, 21H		6. REVISED HINGED ACCESS PANELS TO ACCESS OPENINGS IN T/S FR 59½ P & T/S FR 62½. REVISED SYMBOL FOR HINGED ACCESS PANEL & INDICATED SYMBOL FOR SAME IN JOINER SYMBOL LIST TO SUIT DEVELOPMENT.						
19F		7. REVISED 8" OVERFLOW BETWEEN FRS 66-67 TO SUIT GD/Q DWG NO 30516-200. REVISED JOINER LINING & RELOCATED ELEC. HTR (EC-53) TO SUIT.						
20F		8. RELOCATED ELEC. HTR. EC-54 TO CLEAR 7" HANDWHEEL IN PASSAGES FRS 67-68 TO SUIT GD/Q DWG NO 30516-220						

REVISION "C" CONTINUED ZONE 14 D

GENERAL NOTES

1- "Z" DIMENSION = HEIGHT ABOVE DECK TO BOTTOM OF ELECT. EQUIP.
2- "X" DIMENSION = DISTANCE FROM THE UNDERSIDE OF THE DECK ABOVE DOWN TO THE CENTERLINE OF THE DUCT OR OPENING.

REVISIONS	O	A	B	C	F/G	H	J				
TO					1/6/2	2/22	2/11/2				
LYKES					1	1	1				
M.A.(WASH)					1	1	1				
M.A.(YARD)					1	1	1				
J.J.HENRY(YARD)					1	1	1				
J.J.HENRY(HOME)					2	2	2				
ABS Y/D					1	1	1				
USCG Y/D					1	1	1				
USPHS											
871					4	6	6				
872											
873											
874											
875											
876											
LIA BLDG 10R					1	1	1				
566					1	1	1				
TOTAL NRO'S FS											
TOTAL NRO'S HS					14	16	16				
TOTAL RO											

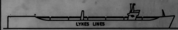
SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
	G	1/6/2	800	4	
	H	2/22	820	5	
	J	2/11/2	826	12	
			829		
			830	7	
			841	1	
			842		
			843		
			844	5	
			899		
			LIBRARY	3	
		Schreiber	#812	1	
			812	1	
			TOTAL	39	

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G							

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE



SEA BARGE CLIPPER

NO.	TITLE	J.M.D. DWG. NO.	Q div DWG NO.	M.A. DWG NO.
11	JOINER GENERAL ARRGT. CABIN DK FR 56-62	9560-JA-3	30574-30×02	241-533-1-8
10	STOREROOM DETAILS	9560-SD-1	30573-10×01	241-530-01-13
9	PLUMBING FIXTURES SCHEDULE		30656-9×01	241-536-01×01
8	STAIRS - LAYOUT & DET.	9560-ST-1	30537-15×01	241-516-4-27
7	CURTAIN SCHED. & DETAILS	9560-CR-1	30571-25×01	241-533-6-3
6	PASSAGE STORM RAILS, ETC.	9560-HR-1	30532-08×01	241-516-4-26
5	WINDOW CASINGS - SCHED & DETAILS	9560-AW-1	30546-10×01	241-512-03-02
4	FURN. ILLUSTRATIONS	9560-FI-1	30571-20×01	241-533-6-2
3	LIST OF FURNITURE	9560-FE-1	30571-20×02	241-533-06-04
2	SCHEDULE JOINER DOORS, ELEV. & DETAILS	9560-JDR-1	30574-15×03	241-516-3-1
1	TYPICAL JOINER DETAILS	9560-JD-1	30574-15×01	241-533-1-4

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO.
30574-20×01

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN J.M.D.
DSGNR
SUPV
ENGR

JOINER GENERAL ARRANGEMENT
MAIN DECK

APPROVED DATE 6-16-70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-533-01-06	J

SCALE ½" = 1'-0" SHEET OF

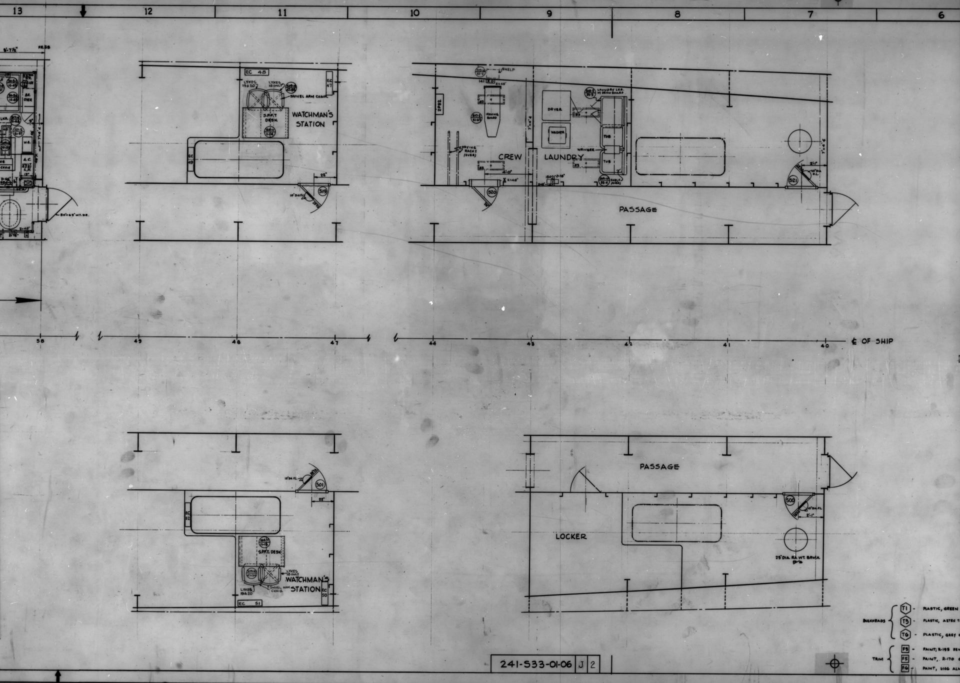
APPROVAL LTR DATED
ABS
USCG LTR 12-9-70
USPHS LTR 7-8-70

OWNER'S APPROVAL LTR DTD. 7-23-70
A.V.M. CORPORATION
JAMESTOWN METAL DIVISION
P.O. BOX I, RONKONKOMA, L.I., 11779
J.M.D. DWG NO. 9560 JA-1 REV-F

AREA = SQ FT 28

M.A. DWG NO. 241-533-01-06
DWG. NO. 30574-20×01
Q div DWG NO 30574-20×01

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-533-01-06GD NO. 30574-20×01FRAME 1 ② 3 4


13
12
11
10
9
8
7
6
MESSMAN #1
M-2
CLG. HGT. 7'-0"
LOCKER
BERTH
S.C.
RECLINING LOUNGE CHAIR
WALL DESK
A.C.
LKR.
FIRE STATION NO 15
30"x63" W.T. DR.
517
518
525
T3
F6
F5
EC 48
EC 47
EC 49
LYKES 19A20
LYKES 18 ONLY
SWIVEL ARM CHAIR
S.P.F.T. DESK
WATCHMAN'S STATION
519
10" DIA. FL.
SHELF
IRONING BOARD
DRYING RACKS (OVER)
CREW
LAUNDRY
DRYER
WASHER
TUB
TUB
WRINGER
LAUNDRY LKR. W/ DRAWBOARD
SHELF (OVER)
520
521
PASSAGE
59
58
49
48
47
44
43
42
41
40
℄ OF SHIP
501
EC 52
S.P.F.T. DESK
LYKES 19A20
LYKES 18 ONLY
SWIVEL ARM CHAIR
WATCHMAN'S STATION
EC 50
EC 51
PASSAGE
LOCKER
500
25" DIA. RA WT. BRW. H.

	Q div		M.A.		OWNER	
ON	DATE	APPD	DATE	APPD	DATE	APPD
REMOTE OPER. GEAR -64 P. TO SUIT UDICATED JOINER AGE CORNICE LIGHT	6/1/71 A.J.V.	FRoy				

AGE TO OUTBOARD SIDE OF PASSAGE.
EL FOR FD-M-52-2 TO SUIT GD/Q PLAN NO 30506-280.
& ADDED ACCESS OPENING IN CEILING IN STEWARD'S LKR.
0A/533/(11)/JJM/AND/RMS-56426 DTD JAN. 22. 1971.
IN LIST OF REFERENCES.
RD SIDE OF PASSAGE FRS 60-61 TO SUIT DEVELOPMENT.
DIVISIONAL BHD IN WAY OF BACK TO BACK LAVATORIES
SINGS FOR LIGHT OVER TOILET CABINET TO SUIT DEVELOP.
TURES TO SUIT MARKED UP PRINT W/ GD/Q LTR FILE
/RMS-56516 DTD FEB 18 1971.
WEEN FRS 63-64 P TO SUIT GD/Q DWG NO 30506-200.
TO SUIT.

	Q div.		M.A.		OWNER	
GD/Q LTR FILE 520A/ DTD JULY 12 1971.	DATE	APPD	DATE	APPD	DATE	APPD
N FOR STWD'S LKR. 70-71 P TO SUIT HOOKS TIE F3	7/30/71 A.J.V.	FRoy			8/4/71	

TO SUIT GD/Q PLAN 30506-101 REVD. REVISED JOINER
DOOR.
PASSAGE FR 64 PORT TO SUIT DEVELOPMENT, ADDED REP WIN
TAIRHALL FRS 69-71 P TO SUIT MARKED UP PLAN GD/Q NO
LE 520A/533/(11)/536/AND/JJM-56766 DTD MAY 18 1971.
ARKED UP PLAN W/ GD/Q LTR FILE 520A/533/(11)/536/AND/
1971. RELEASED REFS NOS TO SUIT.
MARKS TO SUIT GD/Q LETTER FILE 520A/533/(11)/536-
JULY, 8, 1971.

	Q div.		M.A.		OWNER	
Q LTR FILE 520A/533 AUG. 27, 1971.	DATE	APPD	DATE	APPD	DATE	APPD
M BELL FC-308 64½" P. T SWITCH FOR						

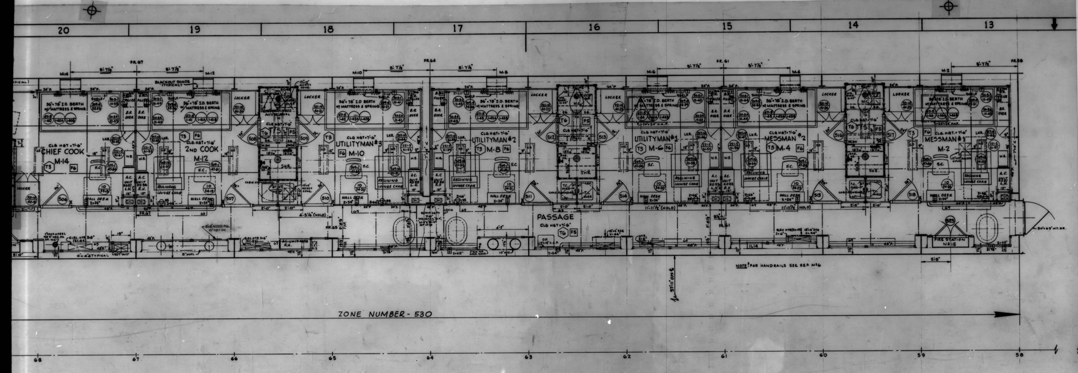
62½ P FROM 2×48" TO 2×54".
(EC-45) FR 60+ & (EC-54) FR 67+ FROM 2×9" TO 2×6".
MADE TO SUIT IRM COMMENTS W/ GD/Q LTR FILE
D/JJM-56986 DTD SEPT 23 1971
LG IN UTILITYMAN #3 (M-10) 4'-7" FWD FR 66 & 43'-2" OFF ℄ P.
LG IN T/S FOR UTILITYMAN #3 (M-10) 4'-1" FWD FR 66 & 51'-0" OFF ℄ P.
LG IN T/S FOR CHIEF COOK (M-14) 4'-6" FWD FR 64 & 43'-2" OFF
69 & 46'-2" OFF ℄ PORT.
NER LIVING BHD 11" FWD FR 65 & 38'-6½" OFF ℄ PORT &
N'G" MADE TO SUIT ABAB S-0807-LYKES W/ GD/Q LTR
/AND/JJM-57016 DTD OCT. 7, 1971.
NUED IN ZONE "15-D"

BULKHEADS
- T1 - PLASTIC, GREEN
- T3 - PLASTIC, AZTEC TA
- T6 - PLASTIC, GREY C

TRIM
- F3 - PAINT; R-195 REN
- F5 - PAINT, R-170 G
- F6 - PAINT, 6106 ALM

241-533-01-06 | J | 2

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-533-01-06 GD NO. 30574-20×01 FRAME 1 2 ③ 4



ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	F	1- PLAN REV."E" APPROVED BY	1/6/72					
		2- CHANGED HINGED ACCESS PANELS TO ACCESS OPNGS IN THE FOLLOWING LOCATIONS:						
18G		a) UTILITYMAN #3 (M-10) 4'-7" FWD FR 66, & 43'-2" OFF ℄, PORT.						
18H		b) T/S FOR UTILITYMAN #3 (M-10) 4'-5" FWD FR.66 & 51'-0" OFF ℄, PORT.						
20G & 21G		c) T/S FOR CHIEF COOK (M-14) 4'-6" FWD FR.69 & 43'-2" OFF ℄, PORT.						
		d) T/S FOR CHIEF COOK (M-14) 21" FWD FR 69 & 46'-2" OFF ℄, PORT.						
		3 ITEM 2 OF REV F MADE TO SUIT COMMENTS W/ GD/Q LTR. FILE 320A/533/(11)/SJG/AND/JJM-57073 DTD NOV. 3, 1971. (SMG. NOV. 18, 1971)						
13F		4- DELETED 12"×12" H.A.P. FOR FO M-58-2 IN PORT PASSAGE FRS 58-59.						
13G & H		5- IN COMPT M-2, MESSMAN Nº 1 FOR ACCESS TO VALVE ADDED 24"×24" H.A.P. BETWEEN FRS 58½-59 PORT, ℄ OF PNL. 15" FWD FR 59 & 50'-1" OFF ℄ SHIP, DELETED 12"×12" H.A.P. OVER CLOTHES LKR.						
16G & H		6- IN COMPT M-6, UTILITY MAN Nº 1 FOR ACCESS TO VALVE, ADDED 24"×24" H.A.P. BETWEEN FRS 61½-62 PORT, ℄ OF PNL. 15" FWD FR 62 & 50'-1" OFF ℄ SHIP. DELETED 12"×12" H.A.P. OVER CLOTHES LKR.						
18H		7. IN T/S FOR COMPT M-10, UTILITYMAN #3 CHANGED SIZE OF AFT H.A.P. FROM 12"×12" TO 16"×16"						
		8. ITEM 4 THRU 7 OF REV."F" MADE TO SUIT AEA # 5-0931 W/ GD/Q LTR FILE Nº 320A/533/(11)/SJG/AND/JJM-57100 DTD NOV 22 1971. THIS INCORPORATES AEA # 5-0931. (SMG. NOV. 30, 1971)						
19F	G	1. ADDED 8"×8" ACCESS PANEL ON INBD JOINER LINING OF PASS. 17" AFT OF FR 66 (PORT) 10" ABV DK TO SERVICE GREASE FITTINGS. SOURCE: AEA 5-0999-LYKES	1-6-72 A.F.					
9	H	1- CREW LAUNDRY, COMPT M-42-4 FRS 42-44 P, SHELF FOR IRON RELOC FROM BHD TO END OF IRONING BD.	2/1/72 A.J.V.					
13,15,17 18		2- THERMOSTAT IN COMPTS M-58-4 FRS 58-59½, M-59½-4 FRS 59½-61, M-61-4 FRS 61-62½, M-61½-4 FRS 62½-64 & M-64-4 FRS 64-65½ RELOC TO 28" FROM ℄ OF WINDOW.						
11		3- WATCHMAN'S STATIONS M-47-3 & M-47-4 FRS 47-48½ P/S, SPFT DESKS INTERCHANGED. SOURCE: ITEM #1 INCORP. AEA # 5-1082-LYK ITEM #2 INCORP. AEA # 5-1073-LYK ITEM #3 INCORP. AEA # 5-1098-LYK						
4,5	J	1- ELECTRICAL SYMBOL LIST ADDED TO.	2/11/72 A.J.V.					
9		2- CREW LAUNDRY, COMPT M-42-4 FRS 42-44 P, ELEC. SYMBOL "141" RELOC FROM FWD BHD TO SHELL UNDER SHELF, SYMBOL "X-Z=48" ADDED FR 43⅓.						
11,12		3- WATCHMAN'S STATIONS M-47-3 & M-47-4 FRS 47-48½ P/S, ADDED ELEC CONVECTORS FOR LYKES 19 & 20 ONLY & SPFT DESKS REINSTATED TO THE ORIGINAL LOC. FOR LYKES 19 & 20.						
13,17,22,		4- HEIGHT ABOVE DK FOR ELECT RECEPTACLES IN PASSAGE AT FRS 58⅛P, 63⅝P & 69¾P, CHGD FROM Z=15" TO Z=48" SOURCE: ITEMS 1 THRU 4 TO SUIT CORRECTIONS REQUESTED BY DEPT 876 (MARKED-UP PRINT).						

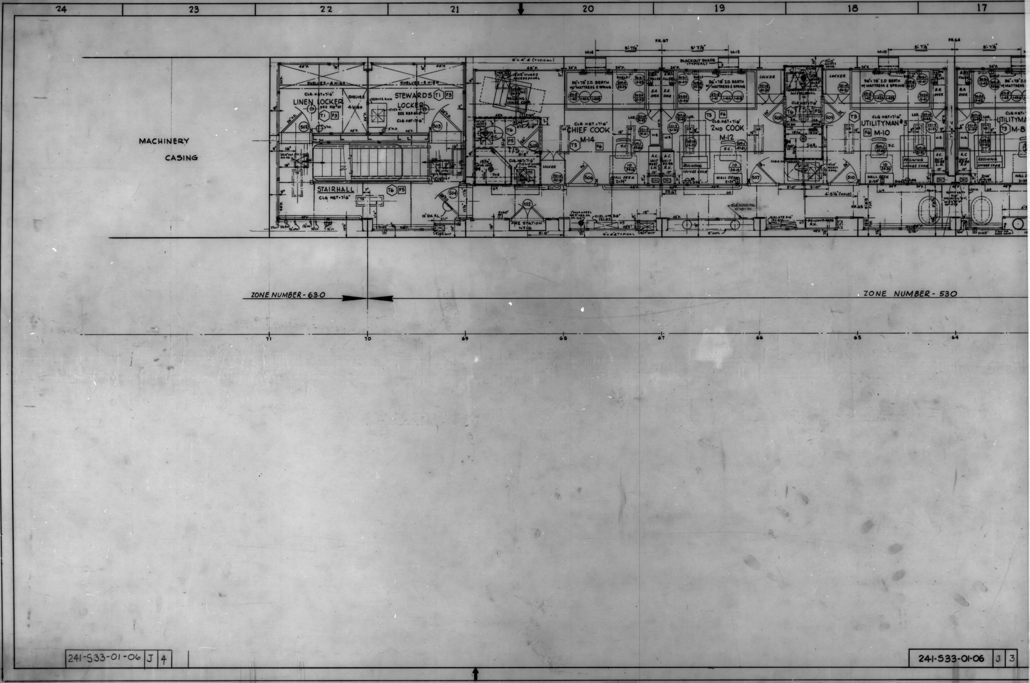
ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
17F	C (CONT.)	9. INDICATED 1" DIA ROD FOR REMOTE OPER. GEAR FOR VALVE OVS-16" FRS 63-64 P. TO SUIT GD/Q DWG Nº 30506-220. INDICATED JOINER CASING, RELOCATED PASSAGE CORNICE LIGHT FROM INBOARD SIDE OF PASSAGE TO OUTBOARD SIDE OF PASSAGE.	6/1/71 A.J.					
13F		10. ADDED HINGED ACCESS PANEL FOR FO. M-52-2 TO SUIT GD/Q PLAN Nº 30506-220.						
22G		11. RELOCATED SERVICE SINK & ADDED ACCESS OPENING IN CEILING IN STEWARD'S LKR. TO SUIT GD/Q LTR FILE 320A/533/(11)/JHM/AND/RMS-56426 DTD JAN. 22, 1971.						
3B		12. REVISED TITLES & DWG Nº IN LIST OF REFERENCES.						
15F		13. REVISED LINING ON INBOARD SIDE OF PASSAGE FRS 60-61 TO SUIT DEVELOPMENT.						
14F, 16F, 18F		14. DELETED "H" POSTS ON DIVISIONAL BHD IN WAY OF BACK TO BACK LAVATORIES AND INDICATED CABLE CASINGS FOR LIGHT OVER TOILET CABINET TO SUIT DEVELOP.						
12FH - 22FH		15. REVISED ELECTRICAL FIXTURES TO SUIT MARKED UP PRINT W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/RMS-56516 DTD FEB 18 1971.						
17F		16. INDICATED 10" OVS BETWEEN FRS 63-64 P TO SUIT GD/Q DWG Nº 30506-300. REVISED JOINER LINING TO SUIT.						
22F		17. ADDED RESERVATION #5						
	D	1. PLAN REV "C" APPROVED BY GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56883 DTD JULY 12 1971.	7/30/71 A.J.V.				8/4/71	
21H, 22H, 6A		2. REVISED DHO. & TRIM FINISH FOR STWD'S LKR. FR. 69-70P & LINEN LKR FR 70-71 P TO SUIT DEVELOPMENT. ADDED SYMBOLS T1 & F3 TO FINISH SYMBOL LIST						
13F		3. RELOCATED WT DR FR 58 P TO SUIT GD/Q PLAN 30506-101 REVD. REVISED JOINER LINING IN WAY OF WT. DOOR.						
17F		4. INDICATED SOFFIT IN PASSAGE FR 64 PORT TO SUIT DEVELOPMENT, ADDED REF Nº						
21F, 22F		5. ADDED ACCESS PNLS IN STAIRWALL FRS 69-71 P TO SUIT MARKED UP PLAN GD/Q Nº 30606-220 W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56766 DTD MAY 18 1971.						
22F		6. REVISED DWG TO SUIT MARKED UP PLAN W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56802 DTD JUNE 4 1971. RELEASED RES Nº 3 TO SUIT.						
		7. ADDED MICROFILM MARKS TO SUIT GD/Q LETTER FILE 320A/533/(11)/SJG-AND/JJM-56885 DTD JULY, 8, 1971.						
	E	1- PLAN REV "D" APPD BY GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56937 DTD AUG. 27, 1971.						
18F		2- RELOCATED GEN. ALARM BELL PC.303 FROM FR 65½" P. TO FR 64½" P.						
16F		3- RELOCATED DISCONNECT SWITCH FOR DRINKING FOUNTAIN FR 62½ P FROM Z=48" TO Z=54".						
14F, 19F		4- RELOCATED ELEC. HTRS (EC-45) FR 60+ & (EC-54) FR 67+ FROM Z=9" TO Z=6".						
		5- ITEMS 2,3,&4 OF REV "E" MADE TO SUIT IRM COMMENTS W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56986 DTD SEPT 23 1971						
18G		6- ADDED 12"×12" H.A.P. IN CLG IN UTILITYMAN #3 (M-10) 4'-7" FWD FR 66 & 43'-2" OFF ℄, P.						
18H		7- ADDED 12"×12" H.A.P. IN CLG IN T/S FOR UTILITYMAN #3 (M-10) 4'-5" FWD FR.66 & 51'-0" OFF ℄, P.						
20G, 21G		8- ADDED 12"×12" H.A.P'S. IN CLG. IN T/S FOR CHIEF COOK (M-14) 4'-6" FWD FR 69 & 43'-2" OFF ℄ PORT AND 21" FWD FR 69 & 46'-2" OFF ℄ PORT.						
16F		9- ADDED 12"×12" H.A.P. IN JOINER LINING BHD 19" FWD FR 63 & 38'-6½" OFF ℄ PORT & 5'-0" ABV DECK.						
		10- ITEMS 6 THRU 9 OF REV "E" MADE TO SUIT AEA # 5-0807-LYKES W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-57016 DTD OCT, 7, 1971.						

REVISION CONTINUED IN ZONE "15-D"

241-533-01-06 | J | 3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-533-01-06 GD NO. 30574-20×01 FRAME 1 2 3 ④

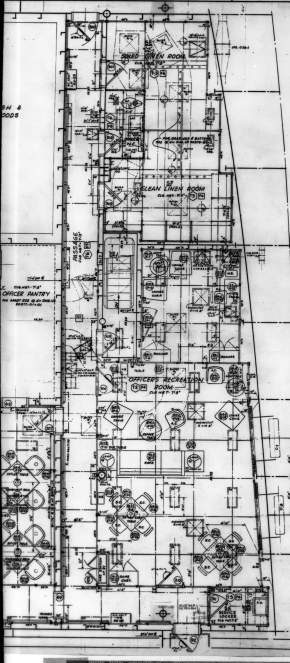


24
23
22
21
20
19
18
17
MACHINERY CASING
LINEN LOCKER
STEWARDS LOCKER
SHELVES - 4 HIGH
SHELVES - 5 HIGH
STAIRHALL
CLG HGT - 7'-6"
T/S
CHIEF COOK M-14
2ND COOK M-12
UTILITYMAN #3 M-10
UTILITYMAN #2 M-8
LOCKER
SHR
36" x 78" I.D. BERTH W/ MATTRESS & SPRING
RECLINING LOUNGE CHAIR
WALL DESK
BLACKOUT SHADE (TYPICAL)
FIRE STATION
FR. 67
FR. 64
ZONE NUMBER - 63.0
ZONE NUMBER - 530
71
70
69
68
67
66
65
64

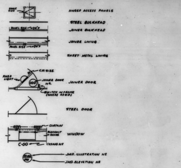
241-S33-01-06 | J | 4

241-S33-01-06 | J | 3

GENERAL DYNAMICS, QUINCY NOV, 1973 10X
MA NO.241-533-01-07 GD NO. 30574-30×01 FRAME ① 2 3 4



JOINER SYMBOLS



ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION	VENDOR Nº
13 / 69	CORNICE LIGHT, FLUOR, TYPE 13, 40W. SURF. MTD NWT	SIMES - 46577
74	CLG FIXT., FLUOR., TYPE 15, (2) 20W, RECESSED, NWT	SIMES - 46902
15	CLG. FIXT., FLUOR., TYPE 15, (3) 20W, RECESSED, NWT.	SIMES - 47889
70	CLG FIXT., FLUOR., TYPE 18, (2) 40W, RECESSED, NWT.	SIMES - 46903
12	DOWN LIGHT, INCAND, TYPE 38, 100W, RECESSED, NWT.	SIMES 45317
104	OUTLET BOX, 4×4×2⅛" SURFACE MTD W/ BLANK COVER NWT	
106	DIAL TELEPHONE SET (BHD MTD)	HOSE MCCANN 247-01
105	SECONDARY CLOCK 9" SEMI FLUSH MTD	SIMPLEX - 1653-082
306 G	GENERAL ALARM BELL (8")	HENSCHEL 20-163
306	RADIO/POWER OUTLET BOX ASSEMBLY (FLUSH MTD)	COMM RADIO - A-22781.
307	TELEVISION POWER OUTLET BOX ASSEMBLY (FLUSH MTD)	COMM. RADIO - A-22766
308	RADIO/POWER OUTLET BOX ASSEMBLY (SURFACE MTD)	COMM RADIO - A-22789
309	TELEVISION POWER OUTLET BOX ASSEMBLY (SURFACE MTD)	COMM RADIO - A-22790
T	THERMOSTAT	
62	6" BELL FOR GARBAGE ALARM SYSTEM	HENSCHEL - 20-162
☒	SWITCH, SPST, 10A, 125V W/ BAKE COVER, W.T.	
×	SWITCH, N.T.	
PB	PUSHBUTTON GALLEY VENTS	
DS	DISCONNECT SWITCH (FLUSH MTD)	LOVELL DRESSEL 1027-MHQ
oo	RECEPTACLE	
309 S	6" BELL FOR SMOKE DETECTING SYSTEM	
83	CLG. FIXT., FLUOR, TYPE 26, (2) 20W SURFACE MTD	SIMES - 48499
EA	BELL, 8", ENGR'S ALARM	REEVE BUDTV-DC
327	ENCLOSURE FOR BELL, FLUSH MTD.	

FINISH SYMBOLS

BULKHEADS	T1	PLASTIC - GREEN MISTLETOE, MICARTA # 91-M-07
	T2	PLASTIC - CEYLON TEAK, MICARTA # 96-M-29
	T3	PLASTIC - AZTEC TAN, MICARTA # 90-M-70
	T6	PLASTIC - GRAY CATHAY, MICARTA # 81-M-04
TRIM	F3	PAINT - R195 RENAISSANCE GREEN; DUPONT # IMG-266
	F4	PAINT - L-72 AUBURN; DUPONT # IMN-199
	F5	PAINT - R-170 GRAY LEEK; DUPONT # IMN-197
	F6	PAINT - L-106 ALMOND; DUPONT # IMN-196

RESERVATIONS

1. ~~CEILING LAYOUT PENDING RECEIPT OF ELECTRICAL & VENTILATION PLANS.~~
2. ~~FIRE STATION DOORS PENDING DEVELOPMENT OF FIRE STATIONS.~~
3. ~~CEILING LAYOUT IN SOILED LINEN & CLEAN LINEN RMS PENDING DEVELOPMENT OF SHELVING.~~
4. ~~VENTILATION LAYOUT PENDING RECEIPT OF PLANS.~~

ZONE NUMBER
240

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. PLAN REV. O APPROVED BY J.J. HENRY LTR. FILE 5589/533/AHS/337-70 DTD JULY 21, 1970.						
7A, 7B, 10B, 11A		2. INDICATED FIXED LIGHTS ON JOINER DOORS TO THE CREW'S & OFFICER'S RECREATION RMS.						
15BEC, 6BEC		3. INDICATED DRAPES ON WINDOWS IN THE CREW'S & OFFICER'S RECREATION RMS.						
1A		4. ADDED MARAD PLAN Nº TO TITLE BLOCK.						
7B, 14E		5. LAYOUT OF LIBRARY AREA IN CREW'S & OFFICER'S RECREATION RMS REVISED TO AGREE W/ MARKED UP PLAN.						
4D		6. ADDED RESERVATION Nº 3						
4D		7. RELEASED RESERVATION Nº 1						
4G		8. ADDED RESERVATION Nº 4						
ALL		9. INDICATED CEILING LAYOUT & ADDED CEILING HEIGHTS						
ALL		10. ADDED STORM RAILS IN PASSAGES.						
		11. ITEMS 2 THRU 10 OF REV A MADE TO SUIT J.J. HENRY LTR., FILE 5589/533/AHS/337-70 DTD JULY 21 1970.						
13A-10A, 9A-8E		12. RELOCATED A.C. UNITS IN PASSAGES PORT & STBD TO SUIT MARKED UP PRINT & QSD LTR FILE 320A/533/(11) AND/RMS-56056 DTD SEPT 17 1970.						
7G, 14E2.		13. REVISED LINING OUTBD. IN SOILED LINEN RM & CLEAN LINEN RM TO SUIT DEVELOPMENT.						
4G.		14. ADDED ELECTRICAL FIXTURES & ELECTRICAL SYMBOL LIST.						
	B	1. PLAN REV "A" APPROVED BY J.J.H. LTR. FILE 5589/533/JHM-528-70 DTD NOV 19, 1970						
6A, 6F, 8E, 9F, CH.		2. ADDED 12"×12" HINGED ACCESS PNLS TO SUIT GD/Q div LTR. FILE 320A/533(11)JHM/AND/RMS-56343 DTD DEC. 14, 1970.						
8G-H		3. ADDED STEEL BHD 2'-7" OFF ℄ STBD FRS 26 TO 28 + TO SUIT GD/Q LTR FILE 320A/533/516/(11)/20/JHM/AND/RMS-56336 DTD DEC. 11, 1970. RELOCATED OUTBD BHD & TOILET FIXTURES IN OFFICER DK TOILET TO SUIT.						
		4. THE FOLLOWING LINING DEPTHS HAVE BEEN REVISED TO SUIT GD/Q STRUCTURE PLANS 30206-101, 30207-101, 30216-101 & 30217-101.						
8HK		a) OUTBD. PASS. BHD, FRS 26-33+ STBD.						
7F		b) AFT. BHD, READING AREA OF OFFICER'S REC. RM, FR 29 STBD.						
7E-F		c) INBD BHD, READING AREA OF OFFICER'S REC. RM FRS 29-30+ STBD.						
		REV B CONTINUED 2-3						
7-8E	B (CONT)	4 d) AFT BHD, OFFICER'S REC. RM, APPROX 4'-6" AFT FR 30, STBD.						
8A-D		e) OUTBD BHD, OFF. DINING RM, FRS 31-33+ STBD.						
10C		f) FWD. BHD, OFF. DINING RM, 9" AFT FR 33 STBD.						
11A-C		g) INBD BHD, OFF. DINING RM, FRS 30-33+ STBD.						
11A-C		h) INBD BHD, CREW MESS, FRS 30-33+ PORT.						
11C		i) FWD. BHD, CREW MESS - 9" AFT FR 33 PORT.						
13A-D		j) OUTBD BHD, CREW MESS, FRS 31-33+ PORT.						
13A-K		k) OUTBD PASS. BHD, FRS 26-33+ PORT.						
14E		ℓ) AFT BHD, CREW REC. RM, APPROX 4'-6" AFT FR 30 PORT.						
14-15F		m) AFT BHD. READING AREA CREW REC RM. FR 29, PORT.						
14E-F		n) INBD BHD, READING AREA CREW REC. RM. FRS 29-30+ PORT.						
13G		o) OUTBD BHD, ATHWARTSHIP PASS FRS 28-29, PORT.						
6AK-15AK		5. ADDED VENTILATION TO SUIT GD/Q DWG NOS 30206-250, 30207-250, 30216-250 & 30217-250.						
4G		6. RELEASED RES NOS 3 & 4.						
6AK-15AK		7. ADDED HINGED ACCESS PNLS TO SUIT VENTILATION PLANS.						
4K		8. ADDED HINGED ACCESS PNL TO JOINER SYMBOL LIST.						
6AK-15AK		9. REVISED ELECTRICAL LAYOUT TO SUIT GD/Q DWG Nº 30207-601, 30216-601 & 30217-601 & MARKED UP JOINER ARRGTS FROM GD/Q.						
4G		10. REVISED ELEC. SYMBOL LIST.						
5E		11. ADDED GEN. NOTE Nº 1.						
6AF-15AF		12. RELOCATED ELEC. CLG. FIXTURES IN OFFICER'S REC. RM, OFFICER'S DINING RM, CREW MESS & CREW REC. RM. TO SUIT REQUIRED ACCESS TO VENTILATION DUCTS.						
6AK-15AK		13. ADDED JOINER FIRE DOOR Nº 431, LABELED JOINER DOOR NOS 301, 302, 303, 304, 305, 308, 407, 409, 410, 411, 412, 413, 414, & 415 AS FIRE DOORS.						
8BC		14. INDICATED MURAL ON OUTBD BHD OF OFFICER DINING RM & ADDED ELEV. "16-B".						
15B0, 16B0		15. REVISED WINDOW CASINGS Nº C-1, C-2, C-3 & C-4 TO SUIT REF Nº 5, REVISED TITLE OF REF Nº 5.						
3B		16. ADDED REF Nº 10.						
6AK-15AK		17. ADDED AND REVISED ELEV NOS TO SUIT REV B OF REF Nº 4.						
6AK-15AK		18. ADDED LOCKER DESIGNATIONS.						
4D, 6AK-15AK		19. ADDED FINISH SYMBOL LIST AND INDICATED FINISH SYMBOLS IN COMPARTMENTS.						
1A, 5B		20. ADDED ZONE NUMBER TO TITLE BLOCK & BODY OF PLAN.						
1A		21. REVISED JMD DWG Nº FROM 9560-JA-1 TO 9560-JA-2.						
2A		22. ADDED U.S.P.H.S. APPROVAL TO TITLE BLOCK.						
		23. ITEMS 13 THRU 22 OF REV B TO SUIT DEVELOPMENT.						
6AK-15AK		24. ADDED HEIGHTS FOR ELECTRICAL FIXTURES TO SUIT J.J.H. LTR FILE 5589/533/JHM-527-70 DTD NOV 19 1970.	4/2/71	[illegible]			15 APR 71	WeH
	C	1. PLAN REV "B" APPROVED BY JJH FIELD REP. JJH Nº 5-07-0309 of 4/1/71						
2K-G		2. REVISED PLAN TO SUIT MARKED UP PLAN W/ GD/Q LTR FILE 320A/533/(11)/536/AND/RMS-56692, DTD APRIL 21, 1971.						
2A		3. INDICATED U.S.C.G. APPROVAL.						
5B		4. REVISED TITLES & DWG NOS IN LIST OF REFERENCES						
13H, 15K		5. ADDED HINGED ACCESS PANELS IN ACCORDANCE W/ MARKED UP QSD-PLAN 30206-230 W/ GD/Q LTR. FILE 320A/533/(11)/536/AND/JJM-56766 DTD MAY 18 1971.						
13, 15H, 15J, 16D, 14F, 15F		6. ADDED HINGED ACCESS PANELS IN ACCORDANCE W/ MARKED UP PLAN 30216-230 W/ GD/Q LTR. FILE 320A/533/(11) 536/AND/RMS-56647 DTD APRIL 15 1971.						
11B		7. ADDED ACCESS OPENING IN ACCORDANCE W/ MARKED UP QSD PLAN Nº 30216-230 W/ GD/Q LTR FILE 320A/533/516/(11)/536/516/AND/RMS-56678 DTD APRIL 16 1971.						
	D	1. PLAN REV "C" APPROVED BY						
		2. ADDED MICROFILM MARKED TO SUIT GD/Q LTR. FILE 320A/533/(11)/536/AND/JJM-56855 DTD JULY 8 1971.						
7D		3. RELOCATED (1) CEILING FIXTURE FC 75 IN OFF. REC. RM. FWD FIXTURE CENTER ROW FROM AFT SIDE BOLTED PLATE TO OUTBD SIDE OF BOLTED PLATE.						
7A		4. INDICATED SURFACE MTD W.T. SWITCH & CABLE CASING IN SERVICE LKR (SK) FR 34 STBD. DELETED JOINER BULK MTD SWITCH.						
14F, 7F, 6D		5. DELETED RECEPT'S AT TABLE LAMPS IN CREW REC. RM. FR 29P & IN OFF. REC. RM FR 29 STBD 2 FR 31 STBD.						
11C, 11C		6. RELOCATED DISCONNECT SWITCH FOR DEICING FOUNTAINS IN OFF. DINING RM & CREW MESS FROM 2×48" TO 2×54"						
		REVISION "D" CONTINUED PANEL 17						

GENERAL NOTES

1. - "Z" DIMENSION = HEIGHT ABOVE DECK TO BOTTOM OF ELEC. EQUIP.

REVISIONS TO	O	A	B	C	E	G	H	J
					[illegible]	[illegible]	[illegible]	[illegible]
LYKES Co					1	1	1	1
M.A.(WASH)					1	1	1	1
M.A.(YARD)					1	1	1	1
J.J.HENRY(YARD)					1	1	1	1
J.J.HENRY(HOME)					2	2	2	2
ABS T/O					1	1	1	1
USCG T/O					1	1	1	1
USPHS								
871					4	4	6	6
872								
873								
874								
875								
876								
UA Bldg 208					1	1	1	1
866					1	1	1	1
TOTAL NRO'S FS								
TOTAL NRO'S HS					14	14	16	16
TOTAL RO								

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
	[illegible]	[illegible]	800		4
			820		5
			826		12
			829		
			830		7
			841		1
			842		
			843		
			844		5
			899		
			LIBRARY		3
		Schoultz	[illegible]		1
		Lauren	812		1
			TOTAL		39

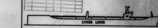
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
J 12-28-72

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	JMD DWG NO.	Q div DWG NO.	M.A. DWG NO.
10	STOREROOM DETAILS	9560-SD-1	30573-10×01	241-580-01-13
9	JOINER GEN. ARRGT. CABIN DK FRS 34-...	9560-JA-3	30575-30×02	241-533-1-8
8	STAIRS - LAYOUT & DETAILS	9560-S-1	30537-15×01	241-516-4-27
7	CURTAINS SCHED & DETAILS	9560-CR-1	30571-26×01	241-533-6-3
6	PASSAGE STORM RAILS & BOLT WASHBASIN ...	9560-HR-1	30537-08×01	241-516-4-26
5	WINDOW CASINGS, SCHED & DETAILS	9560-AW-1	30546-10×01	241-512-03-02
4	LIST OF FURNITURE	9560-FL-1	30571-20×02	241-533-6-4
3	FURNITURE ILLUSTRATIONS	9560-FI-1	30671-20×01	241-533-6-2
2	SCHEDULE JOINER DOORS, ELEVS & DETAILS	9560-JDR-1	30574-15×03	241-516-3-1
1	TYPICAL JOINER DETAILS	9560-JD-1	30674-15×01	241-533-1-4

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO.
30574-30×01

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN JMD
DSGNR
SUPV A.J. Pirani
ENGR

JOINER GENERAL ARRANGEMENT
CABIN DECK · FRS 26-34
ZONE NUMBER - 240

APPROVED DATE [illegible] 7/8/70
FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED
ABS
USCG MARCH 30 1971
USPHS FEB. 8, 1971

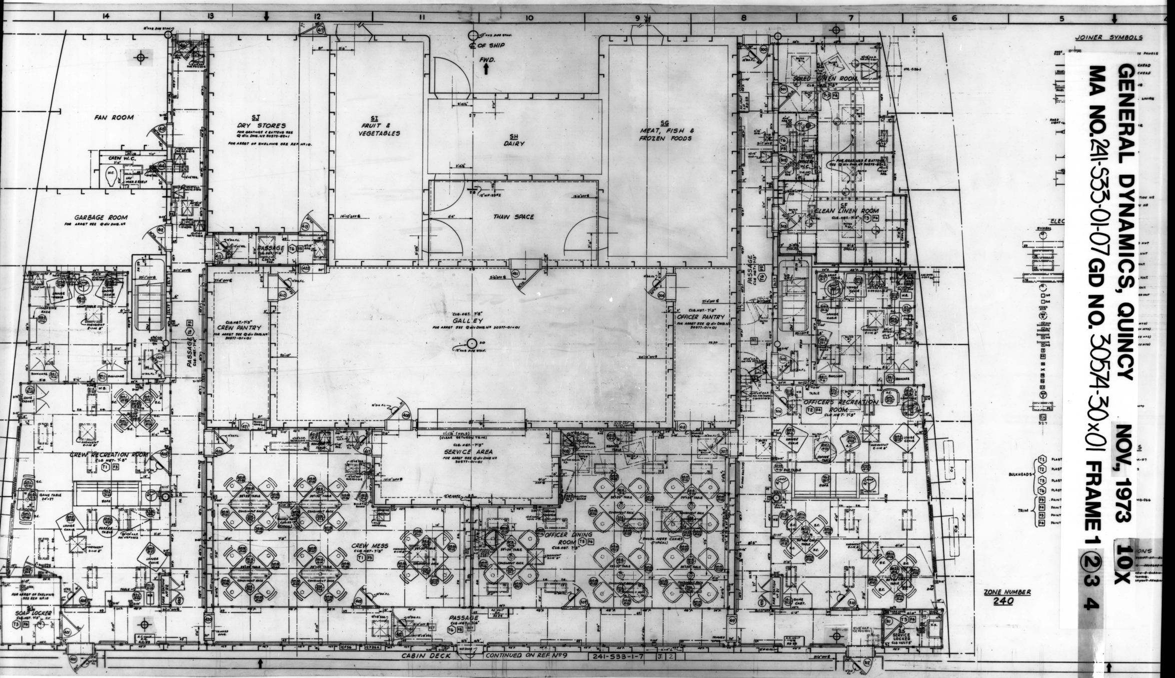
CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-533-01-07	J

SCALE ½" = 1'-0"
SHEET OF
OWNER APPROVAL 7-31-70
A.V.M. CORPORATION
JAMESTOWN METAL DIVISION
P.O. BOX I RONKONKOMA L.I. 11779
JMD DWG Nº 9560-JA-2 REV E
AREA = SQ FT

DWG. NO. 30574-30×01
Q div DWG NO. 30574-30×01
M.A. DWG NO. 241-533-01-07
12/9/71

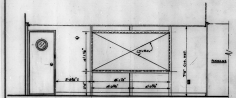
GENERAL DYNAMICS, QUINCY NOV, 1973 10X

MA NO.241-533-01-07 GD NO. 30574-30x01 FRAME 1 ② 3 4

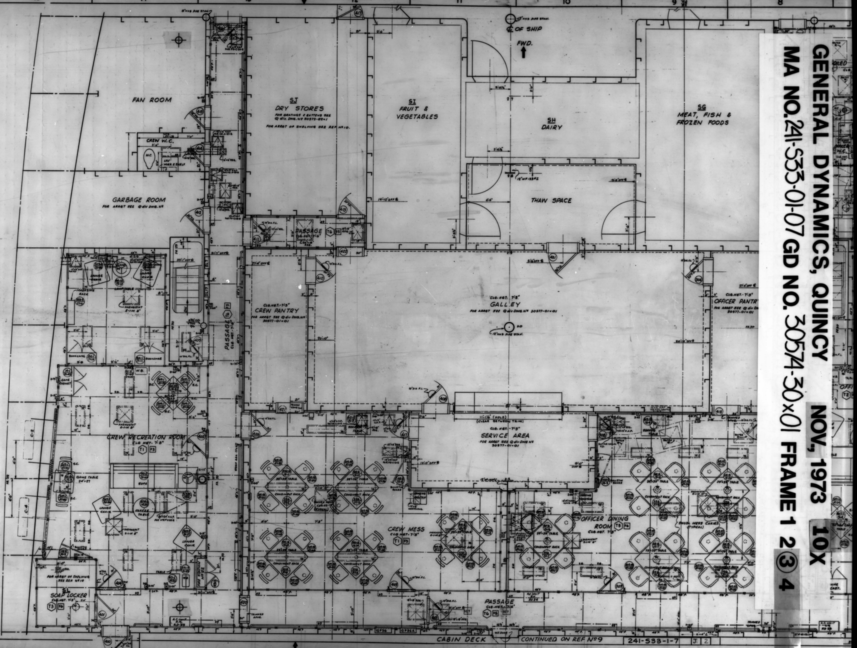

14
13
12
11
10
9
8
7
6
5
FAN ROOM
CREW W.C.
GARBAGE ROOM
SJ
DRY STORES
SI
FRUIT & VEGETABLES
SH
DAIRY
SG
MEAT, FISH & FROZEN FOODS
℄ OF SHIP
FWD.
THAW SPACE
PASSAGE
CREW PANTRY
GALLEY
CLG. HGT. 7'-3"
OFFICER PANTRY
PASSAGE
SOILED LINEN ROOM
SF
CLEAN LINEN ROOM
CREW RECREATION ROOM
SERVICE AREA
OFFICERS RECREATION ROOM
CREW MESS
OFFICER DINING ROOM
SL
SOAP LOCKER
PASSAGE
SERVICE LOCKER
CABIN DECK
CONTINUED ON REF Nº9
241-533-1-7
JOINER SYMBOLS
BULKHEADS
TRIM
T1
T2
T3
T6
F3
F4
F5
F6
ZONE NUMBER
240

GENERAL DYNAMICS, QUINCY NOV, 1973 10X
MA NO.241-S33-01-07 GD NO. 30574-30x01 FRAME 1 2 ③ 4

REVISIONS			Q div.		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
	D (CONT)	7- ITEM 5-6 OF REV 'D' MADE TO SUIT 18M COMMENTS W/ GD/Q LTR FILE 320A/S33/(U)/S16/AND/JJM-56486 DTD SEPT 23 1971						
7G		8- REVISED CLG HGT IN CLEAN LINEN RM BETWEEN FR'S 27½-29 STBD FROM 7'-6" TO 7'-3						
8A-K		9. REVISED CLG HGT IN OUTBD LONGITUDINAL PASSAGE BETWEEN FRS 26-34 STBD FROM 7'-6" TO 7'-3						
		10. ITEM 8 & 9 OF REV D MADE TO SUIT 18M COMMENTS W/ GD/Q LTR. FILE 320A/S33/(U)/S16/AND/JJM-56980 DTD SEPT, 21, 1971.						
7F.		11. REVISED SIZE OF HINGED ACCESS PNL. IN OFF. REC. RM. FR 29+ STBD. FROM 12"×26" TO 12"×18" TO SUIT DEVELOPMENT.						
10D		12. RELOCATED 12"×8" REG. FROM 6'-6" AFT FR 31 & 11'-6" OFF ℄ STBD TO 21" AFT FR 31 & 11'-6" OFF ℄ STBD.						
10D		13. ADDED 12"×12" H.A.P. 20" AFT FR 31 & 10'-1" OFF ℄ STBD.						
12D		14. ADDED 12"×12" H.A.P. 11" AFT FR 31 & 12'-3" OFF ℄ PORT.						
12G		15. ADDED 12"×6" REG. IN PASS. 18" FWD FR 29 & 25'-1" OFF ℄ PORT.						
		16. ITEMS 12 THRU 15 MADE TO SUIT AEA. 5-0803 LYKES W/ GD/Q LTR FILE 320A/S33/(U)/S16/AND/JJM-57016 DTD. OCT 7 1971.						
10G.		17. ADDED 12"×12" ACCESS OPNG IN CLG IN OFFICER DINING RM 20" AFT FR 32 AND 7'-6" OFF ℄ STBD TO SUIT AEA. 5-0808 LYKES W/ GD/Q LTR FILE 320A/S33/(U)/S16/AND/JJM-57016 DTD OCT, 7, 1971.						
	E	1. PLAN REV 'D' APPROVED BY						
3B		2. IN TABLE OF REFERENCES CORRECTED Q div PLAN Nº OF REF Nº'S 1 & 2.						
3F		3. ADDED APPROVAL OF REV 'B' TO ITEM '1' OF REV 'C'.						
8A-K		4. CORRECTED WIDTH OF STBD. LONG'L. PASSAGE FROM 3'-6" TO 3'-5"						
7H, 14H		5. REVISED TITLE OF OFFICER DECK TOILET & CREW DECK TOILET TO OFFICER W.C. & CREW W.C.						
7I-K		6. REVISED HEIGHT OF CEILING IN SOILED LINEN RM. FR'S 26-27 STBD FROM 7'-6" TO 7'-3".						
		7. THE FOLLOWING ITEMS OF AEA# 5-0803 WERE ACCOMPLISHED BY: a)- ITEM 'C' OF AEA# 5-0803 BY ITEM 12 OF REV. 'D'. b)- ITEM 'd' OF AEA# 5-0803 BY ITEM 6 OF REV. 'C'. c)- ITEM 'f' OF AEA# 5-0803 BY ITEM 6 OF REV. 'C'. d)- ITEM 'h' OF AEA# 5-0803 BY ITEM 6 OF REV. 'C'. e)- ITEM 'k' OF AEA# 5-0803 BY ITEM 6 OF REV. 'C'. f)- ITEM 'l' OF AEA# 5-0803 BY ITEM 6 OF REV. 'C'. g)- ITEM 'm' OF AEA# 5-0803 BY ITEM 6 OF REV. 'C'. h)- ITEM 'n' OF AEA# 5-0803 BY ITEM 5 OF REV. 'C'. i)- ITEM 'o' OF AEA# 5-0803 BY ITEM 5 OF REV. 'C'. j)- ITEM 'p' OF AEA# 5-0803 BY ITEM 6 OF REV. 'C'. k)- ITEM 'g' OF AEA# 5-0803 BY ITEM 6 OF REV. 'C'. THIS INCORPORATES AEA# 5-0803						
		8. ITEM 'b' OF AEA # 5-0808 WAS ACCOMPLISHED BY ITEM 7 OF REV. 'C'. THIS INCORPORATES AEA # 5-0808						
		9. ITEMS 2 THRU 8 OF REV. 'E' MADE TO SUIT COMMENTS W/ GD/Q LTR. FILE 320A/S33/(U)/S16/AND/JJM-57075 DTD NOV, 5, 1971. (SMG. NOV, 18, 1971)						
		10. THE FOLLOWING ITEM OF AEA # 5-0932 WERE ACCOMPLISHED BY: a) ITEM 1 OF AEA # 5-0932 BY ITEM 5 OF REV 'C'. b) ITEM 2 OF AEA # 5-0932 BY ITEM 5 OF REV 'C'. THIS INCORPORATES AEA # 5-0932. (SMG NOV 30 1971)						
6A	F	1. DELETED 12"×18" H.A.P. IN SERVICE LKR FR 33¾ STBD.	A.F.	1/6/72				
15A		2. DELETED 12"×12" H.A.P. IN SOAP LKR FR 33¾ PORT.						
7A		3. ADDED 12"×12" H.A.P. IN PASS. BET. FRS 33½ -34 (STBD) 15" FWD FR 34 & 41'-10" OFF ℄ OF SHIP TO SUIT FD C-33-1 SOURCE: ITEMS #1, 2 & 3 AEA 5-0998-LYKES						
VARIOUS	G	1- ELECT SYMBOLS ON PLAN REVISED & RELOCATED TO SUIT SHIP. SOURCE: DES. CORRECTION	5/12/72 A.J.V.					
4, 5, 8	H	1. SYMBOLS ADDED TO LIST OF ELEC. SYMBOLS & IN PASS. BET FRS 30-31 (S). SOURCE: DES CORRECTION	5/16/72 A.J.V.					
9D	J	1. ADDED 12"×12" HAP IN CEIL. ABT 18" AFT FR 31, 24" INBD 18'-0" MBL STBD SOURCE 872 DEPT IEM #1178 OF 6/23/72	6/27/72					


MURAL
PASSAGE
7'-3" CLG. HGT.

ELEVATION '16-B'
MURAL ON OUTBOARD BHD. IN OFF. DINING RM.
SCALE ½"=1'-0"


17
16
15
14
13
12
11
10
9
8
℄ OF SHIP
FWD.
FAN ROOM
CREW W.C.
GARBAGE ROOM
FOR ARRGT SEE Q div DWG Nº
SJ
DRY STORES
FOR GRATINGS & BATTENS SEE Q div DWG Nº 30575-03-01
FOR ARRGT OF SHELVING SEE REF Nº 10.
SI
FRUIT & VEGETABLES
SH
DAIRY
SG
MEAT, FISH & FROZEN FOODS
THAW SPACE
PASSAGE
CREW PANTRY
CLG. HGT.-7'-3"
GALLEY
FOR ARRGT SEE Q div DWG. Nº 30577-01-01
OFFICER PANTRY
SERVICE AREA
CREW RECREATION ROOM
CLG. HGT.-7'-3"
CREW MESS
OFFICER DINING ROOM
SOAP LOCKER
CLG. HGT.-7'-3"
PASSAGE
CLG. HGT.-7'-3"

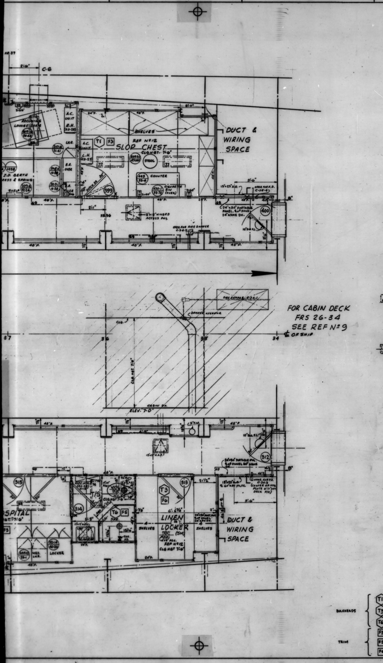
241-S33-1-7 J 3

CABIN DECK

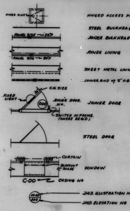
CONTINUED ON REF Nº 9

241-S33-1-7 J 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-S33-01-08 GD NO. 30574-30x02 FRAME ① 2 3 4



JOINER SYMBOLS



ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION	VENDOR Nº
65	CLG. FIXT., FLUOR, TYPE 1 (2) 20W, RECESSED - N.W.T.	SIMES-45539
66	CLG. FIXT. FLUOR, TYPE 1 (3) 20W, RECESSED - N.W.T.	SIMES-46906-320
68	MIRROR LIGHT, FLUOR, TYPE 3, 15W, WITH RECP.	SIMES-48194
69	CORNICE LIGHT, FLUOR, TYPE 13, 40W, SURF. MTD. - N.W.T.	SIMES-46377
73	CLG. FIXT. FLUOR, TYPE 15, (1) 20W, SURF. MTD. - N.W.T.	SIMES-46883
74	CLG. FIXT. FLUOR, TYPE 15, (2) 20W, RECESSED, N.W.T.	SIMES-46902
75	CLG. FIXT. FLUOR, TYPE 15, (3) 20W, RECESSED, N.W.T.	SIMES-47089
78	CLG. FIXT. FLUOR, TYPE 16, (1) 40W, RECESSED, N.W.T.	SIMES-46884
79	DESK LIGHT, FLUOR, TYPE 19, (2) 8W, BHD MTD., N.W.T.	SIMES-45552-2
80	DESK LIGHT, FLUOR, TYPE 19 (2) 8W, DESK MTD, N.W.T.	SIMES-48358 (R)
92	DOWN LIGHT, INCAND, TYPE 34, 40W, RECESSED, N.W.T.	SIMES-45554 (R)
93	BERTH/LOUNGE CHAIR LIGHT, INCAND. 30W.	SIMES-47413
94	CLG. FIXT, FLUOR, TYPE 55, (4) 20W, RECESSED, N.W.T.	SIMES-45972
301	DIAL TELEPHONE SET (BHD MTD)	HOSE McCANN 247-01
302	WATCHCALL ROOM UNIT (FLUSH MTD)	HOSE McCANN 500-01
303	GEN. ALARM DISTR. PANEL (4 CKT)	LOVELL DRESSEL CAT. Nº 4077
304	ENGR. EMERG ALARM BELL (3")	HENSCHEL 20-162
305	GEN. ALARM BELL (8")	HENSCHEL 20-163
306	RADIO-POWER OUTLET BOX ASSEMBLY	COMM. RADIO A-28764
307	ENGR EMERG. ALARM BELL (8")	REEVE-BUD TV-DC
308	CLOCK (6" DIAL) SEMI FLUSH MTD.	SIMPLEX-1653-086
	RECEPTACLE	
	SWITCH	
152	BRACKET FAN, 16", OSC.	PHIL RICH FAN CO. PRF-M-0-16
10	THRU-BHD FIXTURE, W.T., 100W.	PAULUHN 728-BT-567-1
A 334	GND DETECTION AMMETER, FLUSH MTD	FED PACIFIC 3651D8708

RESERVATIONS

~~1- CEILING LAYOUT PENDING RECEIPT OF ELECTRICAL & VENTILATION PLANS.~~
~~2- FIRE STATION DOORS PENDING DEVELOPMENT OF FIRE STATIONS.~~
~~3- A.C. UNITS IN PASSAGES.~~
~~4- SHOWER WINGS PENDING DEVELOPMENT.~~
~~5- LOCATION OF ELECTRIC HEATERS IN T/S.~~
~~6- LOCATION OF DRINKING FOUNTAINS~~
~~7- LINING ON INBOARD SIDE OF PASSAGE FRS 35-36 STBD. PENDING RESOLUTION OF INTERFERENCE W/ 5" F.M.S. DAMPER OPERATOR FOR FD. C-34-1-~~

FINISH SYMBOLS

BULKHEADS
- T1 - PLASTIC - GREEN MISTLETOE, MICARTA # 91-M-07
- T3 - PLASTIC - AZTEC TAN, MICARTA # 90-M-70
- T6 - PLASTIC - GREY CATHAY, MICARTA # 81-M-04

TRIM
- F3 - PAINT - R-195 RENAISSANCE GREEN; DUPONT # IMN-266
- F5 - PAINT - R-170 GREY LEEK; DUPONT # IMN-137
- F6 - PAINT - L-106 ALMOND; DUPONT # IMN-196

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
ALL	A	11. INDICATED CEILING LAYOUTS AND ADDED CEILING HEIGHTS - RELEASED RES Nº 1						
		12. ITEMS 2 THRU 11 MADE TO SUIT J.J. HENRY LTR. FILE 5589/533/AHS-338-70 DTD 7/22/70						
4B		13. RELEASED RES. Nº 6 TO SUIT DEVELOPMENT.						
9G		14. RELOCATED W.C. IN T/S FR 38 PORT TO SUIT QSD SKETCH & QSD LTR FILE 320A/533/(11) AND/RMS-56039 DTD. 9/14/70.	10/29/70					
17G, 9F, 14G, 16G & 18G		15. RELOCATED DRAINS IN SQUARE SHR STALLS FROM 17" TO 20".						
17G, 19F, 14G, 16G & 18G		16. RELOCATED HTR. IN T/S SERVING SR'S C-6 & C8, FROM 54" TO 45" (TYPICAL FOR ALL SEMI-PRIVATE T/S.						
3B		17. ADDED REF Nº 12						
3B		18. ADDED MA. DWG TO REF Nº 4						
		19. ITEMS 14 THRU 18 OF REV "A" MADE TO SUIT MARKED UP PLANS AND LTR FILE: 320A/533/(11) RAJ/KDB-55515 DTD JUNE 19, 1970 & LTR FILE 320A/533(11) FGR/KDB-55593 DTD JULY 13, 1970.						
		20. ADDED ELECTRICAL FIXTURES & ELECTRICAL SYMBOL LIST TO SUIT MARKED UP PLAN FROM QSD.						
7F, 9G & 17G.		21. INDICATED HINGED ACCESS PNLS TO SUIT QSD PLAN Nº 30306-200 & LTR FILE 320A/533/(11)/JNM/AND/RMS-56122.						
16G, 18G.		22. INDICATED HINGED ACCESS PNLS TO SUIT QSD PLAN Nº 30406-200, REV. A.						
8G THRU 10G, 15G THRU 19G, 13A THRU 19A		23. ADDED ELEV. & SKETCH # TO BERTH SHELF IN S.R. # C2, C4, C6, C8, C10, C12, C14 & C16						
		24. DELETED BERTH SHELF IN S.R. # C1, C3, C5, C7 & C9.						
	B	1. PLAN REV "A" APPROVED BY JJH LTR. FILE 5589/533/JUM-528-70 DTD NOV 19 1970.						
6AH-19AH		2. REVISED PLAN TO SUIT COMMENTS IN J.J.H LTR FILE 5589/533/JUM-528-70 DTD 11/19/70						
6B, 6F		3. INDICATED STL. BHDS AROUND DUCT & WIRING SPACE FR 34 P/S TO SUIT GD/Q PLAN Nºs 30306-101 & 30307-101. REVISED JOINER BHDS TO SUIT.	A.J.V.					
12F		4. INDICATED STL. BHDS FR 42-43 PORT SIDE IN WAY OF SERVICE LKR, TO SUIT GD/Q PLAN # 30316-101. REVISED JOINER DOOR & BHDS TO SUIT.						
12B		5. INDICATED STL. BHD 54" AFT FR 42 STBD SIDE TO SUIT GD/Q PLAN Nº 30317-101.						
10B		6. REVISED ARRGT OF OFFICER LAUNDRY TO SUIT GD/Q PLAN Nº 30307-130 REV B.						
4B, 7D, 6E-19E, 6C-19C		7. REVISED LININGS ON INBOARD SIDE OF PASSAGES TO SUIT VENTILATION, PIPING & MECHANICAL PLANS. ADDED ELEV 7D & RESERVATION Nº 7.						
6AH-19AH		8. ADDED ACCESS PANELS & ACCESS OPENINGS TO SUIT MARKED UP PRINT FROM GD/Q W/ LTR FILE 320A/533/(11)/JNM/AND/RMS-56343 DTD DEC 14 1970 & PIPING PLANS.						
5H		9. ADDED HINGED ACCESS PANEL TO JOINER SYMBOL LIST.						
6AH-19AH		10. REVISED FURNITURE & ILLUSTRATION Nºs TO SUIT REV "B" OF REF. Nº 4.						
2A		11. ADDED USPHS APPROVAL.						
6E-19E		12. ADDED GD/Q ZONE NUMBERS TO BODY OF PLAN.						
5A, 6AH-19AH		13. ADDED FINISH SYMBOL LIST & INDICATED FINISH SYMBOLS IN COMPARTMENTS						
3B		14. REVISED TITLE & Nºs OF PLANS IN LIST OF REFERENCE PLANS.						
9A		15. RELOCATED WINDOW BETWEEN FRS 37 & 38 TO SUIT GD/Q COMMENTS ON MARKED UP PRINT FROM JJH W/ LTR FILE 5589/533/JUM-528-70 DTD NOV 19 1970.						
6AH-14AH, 3B		16. REVISED ELECTRICAL FIXTURES TO SUIT MARKED UP PRINT W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/RMS-56516 DTD FEB. 10, 1971. ADDED GEN. NOTE Nº 1.						
		17. RELOCATED AFT LINING BHD IN T/S OF SR. C-3 FROM 2" FWD FR 46 TO 3" FWD FR 46 TO SUIT GD/Q LTR FILE 320A/533/(11)/JNM/AND/RMS-56238 DTD NOV 13 1970.						
		REVISION "B" CONTINUED ZONE 24						

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. PLAN REV. "O" APPROVED BY J.J. HENRY LTR FILE 5589/533/AHS-338-70 DTD 7/22/70						
8B		2. FORE & AFT DIMENSION OF HOSPITAL T/S, SR. C-1 T/S & SR. C-3 T/S, CORRECTED FROM 5'-4" TO 5'-5".						
14B, 15B		3. DEPTH OF SERVICE LKR (SN) CHANGED FROM 6'-0" TO 4'-0".						
16C, 17C		4. CORRECTED RECLINING LOUNGE CHAIRS TO STRAIGHT LOUNGE CHAIRS IN SR. C-5 & C-7.						
9B		5. SEPERATED WASHER & DRYER IN OFF. LAUNDRY.						
7C-19C, 7F-19F		6. INDICATED HANDRAILS IN PASSAGES.						
ALL		7. SHELVES OVER BERTHS RELOCATED FROM 2'-0" TO HEAD OF BERTH TO 4'-0" FROM HEAD OF BERTH.						
6A, 6F, 12B		8. INDICATED ACCESS PANELS TO DUCT & WIRING SPACES TO BE PORTABLE.						
13B-15B, 13G-19G		9. ADDED NOTES TO INDICATE LINING FOLLOWING SHELL TUMBLE HOME.						
10B, 10C		10. INDICATED COAMING UNDER PERIMETER BHDS & LININGS IN OFFICERS LAUNDRY						
		CONTINUED IN PANEL 3						

REVISIONS	O	A	B	C		E	F	G			
TO						1 6 2	2 16 2	3 29 72			
LYKES						1	1	1			
M.A.(WASH)						1	1	1			
M.A.(YARD)						1	1	1			
J.J.HENRY(YARD)						1	1	1			
J.J.HENRY(HOME)						2	2	2			
ABS						1	1	1			
USCG						1	1	1			
USPHS											
871						4	4	4			
872											
873											
874											
875											
876											
LIA BLD 108						1	1	1			
866						1	1	1			
TOTAL NRO'S FS											
TOTAL NRO'S HS						14	14	14			
TOTAL RO											

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
			800		4
			820		5
			826		12
			829		
			830		7
			841		1
			842		
			843		
			844		3
			899		
			LIBRARY		3
			812		1
			812		1
			TOTAL		39

GENERAL NOTES

1. "Z" DIMENSION - HEIGHT ABOVE DECK TO BOTTOM OF ELEC. EQUIP.

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G								

REVISIONS CONTD FROM PANEL 21

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
13	G	1. H.A.P. ADDED IN LONG'L BHD, P., 36" AFT FR 43, FOR FIRE DAMPER FDC-43-2. 2. VENT DUCT REV. & BHD. RELOC IN WAY OF LKR. DOOR IN DK, CADET S.R. (C-5) FOR LYKES 19 & 20 ONLY. PLAN 22-B & SECT 24-B REVISED & SECT 23-B ADDED TO SUIT. PORTABLE COVER INDICATED FOR LYKES 18 ONLY. SOURCE: ITEM 1, INCORP AEA 5-1225. ITEM 2, PLAN CORRECTION.	MG					

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

REFERENCES

NO.	TITLE	J.M.D. DWG NO.	Q div DWG NO.	M.A. DWG NO.
12	STOREROOM DETAILS	9560-SD-1	30573-10x01	241-530-01-13
11	PLUMBING FIXTURES SCHEDULE		30656-9x01	241-536-01x01
10	JOINER GEN ARRGT CABIN DK FRS 52-71	9560-JA-4	30574-30x03	241-533-1-9
9	JOINER GEN. ARRGT CABIN DK FRS 26-34	9560-JA-2	30574-30x01	241-533-1-7
8	STAIRS - LAYOUT & DETAILS	9560-S-1	30537-15x01	241-516-04-27
7	CURTAINS, SCHED & DETAILS	9560-CR-1	30571-25x01	241-533-6-3
6	PASS. STORM RAILS & RAILS IN WHEELHOUSE & CHARTRM	9560-HR-1	30532-08x01	241-516-09-26
5	WINDOW CASINGS SCHED & DETAILS	9560-AW-1	30546-10x01	241-512-03-02
4	LIST OF FURNITURE	9560-FE-1	30571-20x02	241-533-06-04
3	FURNITURE ILLUSTRATIONS	9560-FI-1	30571-20x01	241-533-06-02
2	SCHED. JOINER DOORS, ELEV. & DETAILS	9560-JDR-1	30574-15x03	241-516-3-1
1	TYPICAL JOINER DETAILS	9560-JD-1	30574-15x01	241-533-1-4

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO.
30574-30x02

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN J.M.D.
DSGNR
SUPV
ENGR

JOINER GENERAL ARRANGEMENT
CABIN DECK FRS. 34-52

APPROVED DATE 6-16-70
R.A. Jacobson
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S33-01-08	G

SCALE
SHEET OF

APPROVAL LTR DATED
ABS
USCG MAY 21 1971
USPHS FEB. 8, 1971

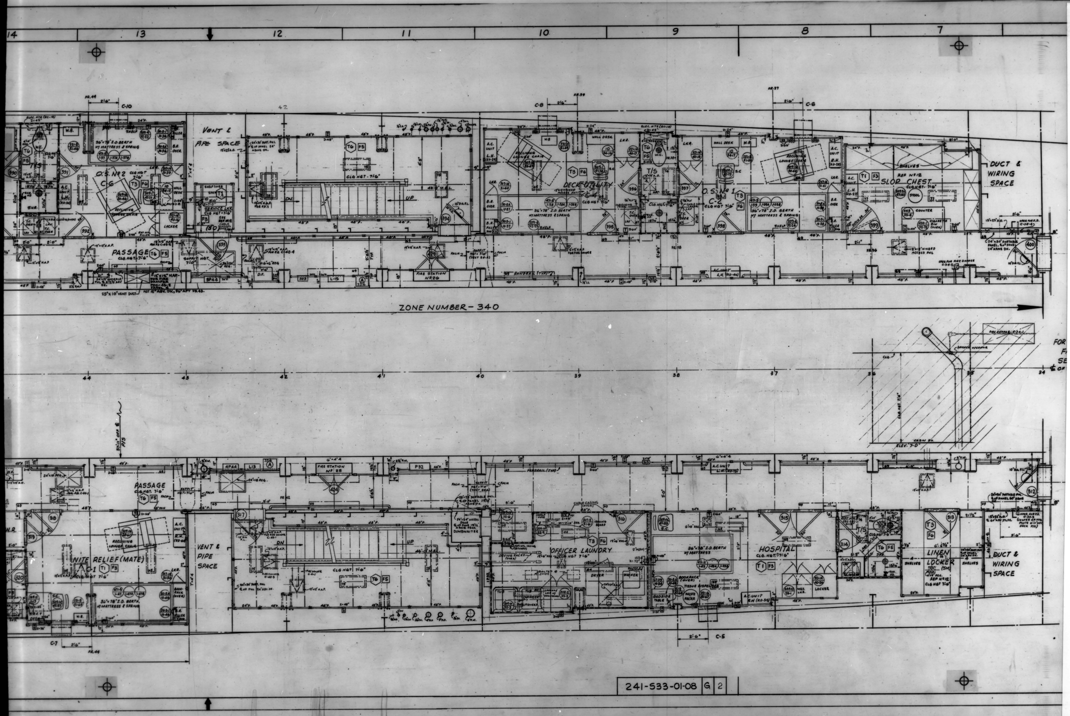
OWNER APPROVAL 7-23-70
A.V.M. CORPORATION
JAMESTOWN METAL DIVISION
P.O. BOX I RONKONKOMA, L.I., N.Y. 11778
J.M.D. DWG. Nº 9560-JA-3 REV E

AREA = SQ FT

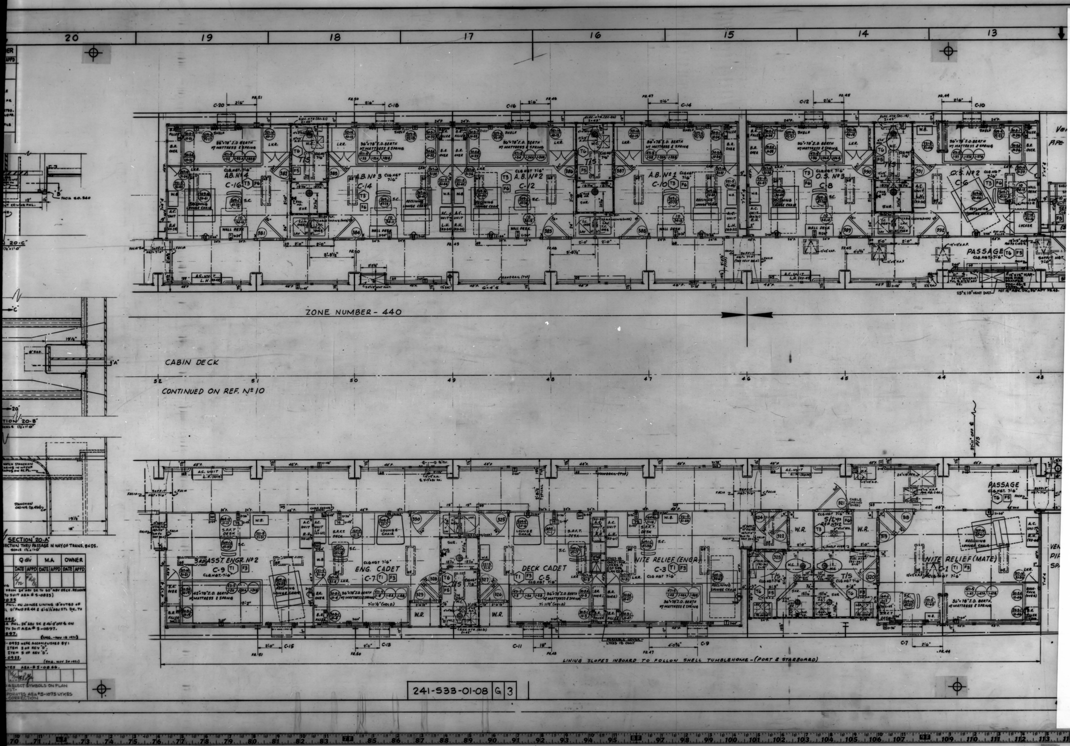
M.A. DWG NO. 241-S33-01-08
DWG. NO. 30574-30x02
Q div DWG NO. 30574-30x02

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-S33-01-08 GD NO. 30574-30x02 FRAME 1 ② 3 4


14
13
12
11
10
9
8
7
C-10
C-8
C-6
O.S. Nº2
C-6
VENT & PIPE SPACE
SERVICE LKR
PASSAGE
CLG HGT 7'-6"
DECK UTILITY
C-4
T/S
O.S. Nº1
C-2
SLOP CHEST
DUCT & WIRING SPACE
FIRE STATION Nº26
ZONE NUMBER - 340
44
43
42
41
40
39
38
37
36
35
34
PASSAGE
FIRE STATION Nº25
NITE RELIEF (MATE)
VENT & PIPE SPACE
OFFICER LAUNDRY
HOSPITAL
T/S
LINEN LOCKER
DUCT & WIRING SPACE
C-7
C-5
241-S33-01-08 G 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-533-01-08 GD NO. 30574-30×02 FRAME 1 2 ③ 4

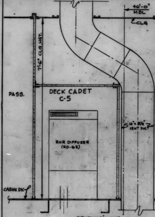

20
19
18
17
16
15
14
13
C-20
C-18
C-16
C-14
C-12
C-10
A.B. No 4
C-16
A.B. No 3
C-14
A.B. No 2
C-12
A.B. No 1
C-10
O.S. No 3
C-8
O.S. No 2
C-6
T/S
SHR.
LKR.
W.B.
B.R. OVER
A.C. UNIT
R.H.
L.H.
WALL DESK
LOUNGE CHAIR
RECLINING LOUNGE CHAIR
36"x78" S.D. BERTH W/ MATTRESS & SPRING
CLG. HGT. 7'-6"
PASSAGE
HANDRAIL (TYP)
ZONE NUMBER - 440
CABIN DECK
52
51
50
49
48
47
46
45
44
43
CONTINUED ON REF. No 10
SECTION "20-A"
SECTION THRU PASSAGE IN WAY OF TRANS. BHDS.
SECTION "20-B"
3RD ASST. ENGR. No 2
C-9
ENG. CADET
C-7
DECK CADET
C-5
NITE RELIEF (ENGR.)
C-3
NITE RELIEF (MATE)
C-1
W.R.
S/L
S.F.F.T. DESK
LOCKER
C-15
C-13
C-11
C-9
C-7
LINING SLOPES INBOARD TO FOLLOW SHELL TUMBLEHOME - (PORT & STARBOARD)
241-533-01-08
G
3
Q div
M.A
OWNER
DATE
APPD

24 | 23 | 22 | 21 | 20 | 19 | 18 | 17

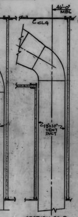
ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
11C,11F,15G,15F 15C,15F,16C,16F 21B-H	B (CONT)	18. INDICATED SOFFITS IN PASSAGES P/S IN WAY OF TRANS. BHDS FRS 40,43,46 & 52. ADDED SECTIONS 20A, 20-B & 20-C. TO SUIT DEVELOPMENT.	5/24/71 AJV	ok F Roff			8 JUN 1971	Ullet
22A-H, 24A-H		19. INCREASED LENGTH OF PLAN. ADDED ZONES 22, 23 & 24.						
22B, 24B		20. ADDED SECTION 22-A & DETAIL 24-A, DETAILS OF JOINER ENCLOSURE FOR WEBS FRS 39 P/S, 41 P/S, 42 P/S & 44 P/S.						
22B, 24B		21. ADDED PLAN 22B, SECT'S 23-A & 24B. DETAIL OF JOINER ENCLOSURE FOR VENT DUCT IN DECK CADETS S.R. (C-5).						
12F, 14C		22. DELETED SWITCHES ON DOOR FRAMES 321 & 393 TO SUIT GD/Q REQUEST.						
	C	1. PLAN REV "B" APPROVED BY J.J.H. FIELD REP. BY IRM DTD JUNE 8 1971 W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56822 DTD JUNE 18, 1971.	6/19/71 A.J.V.	ok F Roff				
18B		2. RELOCATED ELEC SYM "302 IN SR C-7 & SR C-9 TO SUIT COMMENTS FROM J.J.H FIELD REP. SYM 302 IN SR C-9 IS SHOWN ON QSD PLAN 30574-30x03.						
2A		3. ADDED USCG APPROVAL OF REV "B" TO TITLE BLOCK.						
12F		4. CHANGED BHD & TRIM FINISH FOR SERVICE LKR FR 43P & SLOP CHEST FR 36P						
12F		5. REVISED SERVICE LKR. (FR 43 P) DESIGNATION FROM (SN) TO (SO).						
13C		6. INDICATED 5" F.M IN PASS. FR 43S & REVISED LINING TO SUIT.						
7C-D		7. INDICATED LINING TO ENCLOSE 5" F.M FR 35+ STBD PASS. DELETED ELEV "70" AND RELEASED RES. NO 7.						
		8. ITEM 5, 6 & 7 OF REV "C" MADE TO SUIT MARKED UP PRINTS WITH AND GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56800 DTD JUNE, 2, 1971.						
11C,11B,13C		9. INDICATED PIPING TO SUIT GD/Q PLAN 30317-200.						
		REVISION "C" CONTINUED IN PANEL 22						

ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
17C	C (CONT)	10. REVISED LOCATION OF ACCESS OPENING 2'-1½" AFT FR 49 STBD PASS. TO SUIT IRM WITH GD/Q. LTR. FILE 320A/533/(11)SJG/AND/JJM-56803 DTD. JUNE 4 1971.	AJV				23 AUG 1971	Ullet
12-13F		11. INDICATED HINGED ACCESS PANELS TO SUIT QSD PLAN 30316-200 REV "B" W/ GD/Q LTR. FILE 320A/533/(11)/SJG/AND/JJM-56803 DTD JUNE 4 1971.						
12-13F		12. CORRECTED LOCATION OF 36"x24" REG. 68" AFT FR MFL 42 STBD PASS. REVISED SOFFIT AND RELOCATED ELEC SYM 69 TO SUIT.						
	D	1- PLAN REV "C" APPROVED BY GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56954 DTD. SEPT. 3, 1971. INDICATED APPROVAL SIGNATURES.						
		2- ADDED MICROFILM MARKS TO SUIT GD/Q LTR. FILE 320A/533/(11)/SJG/JJM-56855 DTD. 7/8/71						
10F		3. ADDED HINGED ACCESS PNL. FOR FIRE DAMPER FR 39 + PORT PASSAGE. TO SUIT GD/Q PLAN #30306-200 REV. "D."						
11G		4. INDICATED PIPING BETWEEN FRS 40 & 41 PORT - OUTBD OF LINING IN STAIRHALL TO SUIT GD/Q PLAN NO 30316-230 REV "C".						
12G		5 ADDED HINGED ACCESS PNL. FOR FIRE DAMPERS FR 42+ PORT STAIRHALL TO SUIT GD/Q PLAN NO 30316-230 REV "C"						
7C,8B,8C,9C 9B,10B,11B,14F 16F,17F,18F,19F		6- INDICATED SWITCHES IN DOOR FRAMES NOS 313, 314, 315 & 316.						
		7- RELOCATED RECEPTACLES FOR WALL DESKS FROM 2x30" TO 2x24" IN SR'S. C-2, C-4, C-6 C-8, C-10, C-12, C-14 & C-16.						
7C		8- RELOCATED PC 69 FRS 35-36 STBD FROM OUTBD PASSAGE BHD TO INBD PASS. BHD.						
10B		9- INDICATED SEMI-RECESS MTG OF DUMBWAITER AMPLIFIER PC 316 FR 40S						
14B		10- INDICATED "H"-POST FOR CABLE TO DESK LIGHT IN S.R. C-1.						
14B.		11- INDICATED "H"-POST FOR CABLE TO ELEC. CONVECTOR IN T/S FOR SR. C-1						
		REVISION "D" CONTINUED IN PANEL 21						

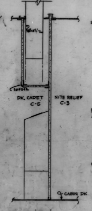
ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A DATE	M.A APPD	OWNER DATE	OWNER APPD
9B	D (CONT)	12. RELOCATED "H"-POST ON AFT BHD OF HOSPITAL AND RELOCATED PC. 95 TO SUIT						
12F,16C		13. RELOCATED DRINKING DISCONNECT SWITCH FROM 2x48" TO 2x54" FR 42+ PORT PASSAGE & FR 44+ STBD PASSAGE.						
16C		14. RELOCATED RECEPTACLE FROM BELOW PC 301 TO BELOW PC 79 IN SR. C-3.						
		15. ITEMS 6 THRU 14 OF REV "D" MADE TO SUIT IRM COMMENTS W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56986 DTD SEPT 23 1971.						
11F		16. RELOCATED 12"x12" H.A.P. FROM 12" FWD FR 41 & 41'-0" OFF ℄ PORT TO 4'-7" FWD FR 41 & 40'-11" OFF ℄ PORT.						
14B		17. ADDED 12"x12" H.A.P. INCL'G. IN NITE RELIEF (MATE) (C-1) 9" AFT FR 44 & 47'-3" OFF ℄ STBD.						
13C.		18. REVISED JOINER LINING BHD. OUTBD PASSAGE IN WAY OF 5" F.M APPROX 18" FWD FR. 43 FROM 17" OUTBD OF 37'-11" STL BHD TO 18" OUTBD OF 37'-11" STL BHD.						
		19. ITEMS 16 THRU 18 OF REV. D MADE TO SUIT AEA # S-0809 LYKES W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-57016 DTD OCT. 7. 1971.						
		LIST OF REVISIONS CONTINUED ZONE "21-B"						


46'-0" MBL
℄ CLG
7'-6" CLG. HGT.
PASS.
DECK CADET C-5
RHR DIFFUSER (RD-62)
16"x8½" VENT DUCT
CABIN DK

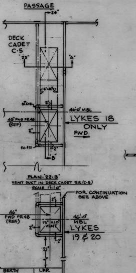
SECTION "24-B"
SCALE 1"=1'-0"
AS SHOWN-FOR LYKES 18 ONLY
FOR LYKES 19 & 20 SEE SECT 23-B


46'-0" MBL
℄ CLG
13"x10" VENT DUCT

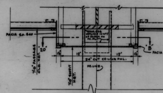
SECTION 23-B
SCALE 1"=1'-0"
LYKES 19 & 20 ONLY
DETS NOT SHOWN SIM TO SECT 24-B


S.O.#542
DK. CADET C-5
NITE RELIEF C-3
CABIN DK

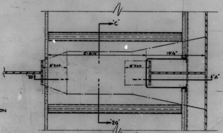
SECTION "23-A"
SCALE 1"=1'-0"


PASSAGE
24"
DECK CADET C-5
"23"
"A"
16"x8½"
S.O.#542
2"
46'-0" MBL
45" FWD FR 48 (REF)
LYKES 18 ONLY
FWD
S.O.#21
"B"
FOR CONTINUATION SEE ABOVE
46" FWD FR 48 (REF.)
13"x10" VENT
46'-0" MBL
LYKES 19 & 20
21"
BERTH
LKR

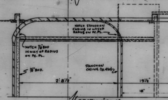
PLAN "22-B"
VENT DUCT IN DECK CADET S.R. (C-5)
SCALE 1"=1'-0"


FACIA S.O. 540
7'-6" PASSAGE CLG. HGT.
"20"
7'-0" SOFFIT HGT.
STAN. CSG. NOTCHED IN WAY OF RADIUS ON FC. PL.
1½"
12"
24" CUT CEILING PNL.
FR. LINE
"B"
FACIA S.O. 540

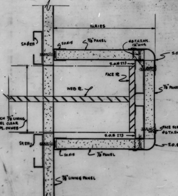
SECTION "20-C"
SCALE: 1½"=1'-0"


"C"
2'-8½"
19½"
8" RAD.
"20"
"A"
"20"

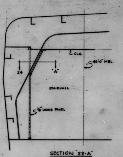
SECTION "20-B"
SCALE 1½"=1'-0"


NOTCH STANCHION CASING IN WAY OF RADIUS ON FC. PL.
NOTCH 7/8" BHD IN WAY OF RADIUS ON FC. PL.
7/8" BHD.
STANCHION CASING (S.O.450)
2'-8½"
19½"
18"

SECTION "20-A"
TYPICAL SECTION THRU PASSAGE IN WAY OF TRANS. BHDS.
SCALE 1½"=1'-0"


VARIES
S.O.#273
S.O.#15
7/8" PANEL
#8 F.H.S.M.S. 1¼" LG.
S.O.#542
S.O.#273
FACE PL.
WEB PL.
NOTCH 7/8" LINING PANEL CLEAR FC. PL. OF WEB
FACE SCREW W/ #6 T.H.S.M.S. 3/4" LG.
S.O.#273
S.O.#542
S.O.#15
7/8" PANEL
7/8" LINING PANEL

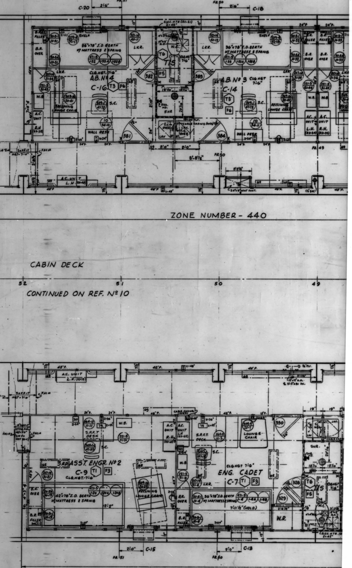
DETAIL "24-A"
SCALE: HALF FULL SIZE


℄ CLG.
46'-0" MBL.
24
"A"
STAIRHALL
7/8" LINING PANEL

SECTION "22-A"
FR. 41 PORT LKG. FWD. STBD SIM.
FR'S 39 P/S, 42 P/S & 44 P/S SIMILAR.
SCALE ½"=1'-0"

ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A DATE	M.A APPD	OWNER DATE	OWNER APPD
	E	1. PLAN REV "D" APPROVED BY	1/6/72	cm F Roff 1/12				
6C		2. RELOCATED 15"x23" ACCESS OPENING 5'-6" AFT FR 34 ON BHD 42'-8½" OFF ℄ FROM 24" ABV DK TO 60" ABV DECK. RELOCATE JOINER PORTABLE PANEL TO SUIT. (TO SUIT AEA # S-0833) THIS INCORPORATES AEA # S-0833						
13F		3. ADDED 24"x12" PORTABLE JOINER PNL. ON JOINER LINING 18" OUTBD OF 37'-11" STL. LONG'L. BHD., ℄ OF PANEL 21" FWD FR 44 & 6'-6½" ABV STL DK. TO SUIT AEA # S-0892 THIS INCORPORATES AEA # S-0892.						
7B.		4. ADDED 24"x30" PORTABLE JOINER PNL. 24" ABV DK & 46'-8" OFF ℄ ON TRANS. STL BHD FR 34¾ STBD. TO SUIT AEA # S-0897. THIS INCORPORATES AEA # S-0897. (SMG. - NOV 18 1971)						
		5. THE FOLLOWING ITEMS OF AEA # S-0933 WERE ACCOMPLISHED BY: a) ITEM 1 OF AEA # S-0933 BY ITEM 3 OF REV "D". b) ITEM 2 OF AEA # S-0933 BY ITEM 5 OF REV "D". THIS INCORPORATES AEA # S-0933. (SMG. NOV 30 1971)						
		6. ITEM 8 OF REV "B" INCORPORATES AEA-# S-0866.						
9 THRU 19	F	1- THERMOSTATS RELOCATED TO 28" FROM ℄ OF WINDOW TO CLEAR CURTAIN.	2/1/72 A.J.V.	F Roff				
ALL		2- ELECT. SYMBOL LIST ADDED TO & ELECT SYMBOLS ON PLAN CORRECTED TO AGREE WITH LIST. SOURCE: ITEM #1 INCORPORATES AEA # S-1075 LYKES ITEM #2 - DES. CORRECTION						

REVISIONS CONT'D IN PANEL 3

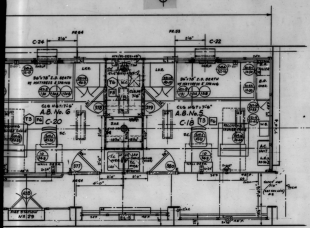

C-20
FR. 51
2'-6"
FR. 50
C-18
ELEC. HTR (EC-21) 2x45"
SHELF
36"x78" I.D. BERTH W/ MATTRESS & SPRING
B.R. FILLER
B.R. OVER
LKR.
W.C.
T6
T/S
F5
CLG HGT 7'-6"
AB. No 4
C-16
T3
F6
AB. No 3
C-14
382
383
381
384
SHR.
RECLINING LOUNGE CHAIR
S.C.
W.B.
A.C. UNIT R.H.
A.C. UNIT L.H.
WALL DESK
LAV
T.C. OVER
CABLE CASING (OVER)
FACIA
SOFFIT HGT 7'-0"
3'-8½"
FR 49
A.C. UNIT L.H.
24"x9" VENT DUCT
ZONE NUMBER - 440
CABIN DECK
52
51
50
49
CONTINUED ON REF. No 10
A.C. UNIT L.H.
48" P.
S.P.F.T. DESK
S.P.F.T. DECK
LOUNGE CHAIR
W.B.
330
3RD ASS'T. ENGR. No 2
C-9
T1
F3
CLG. HGT. 7'-6"
42"x78" I.D. BERTH W/ MATTRESS & SPRING
12'-2"
RECLINING LOUNGE CHAIR
B.R. OVER
B.R. FILLER
ENG. CADET
C-7
CLG HGT 7'-6"
36"x78" I.D. BERTH W/ MATTRESS & SPRING
7'-11½" (HOLD)
328
329
T6
T/S
F5
SHR.
W.C.
W.R.
ELEC. HTR.
2'-0"
C-15
FR. 51
C-13
FR. 50

241-S33-01-C

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S33-01-08 GD NO. 30574-30x02 FRAME 1 2 3 ④

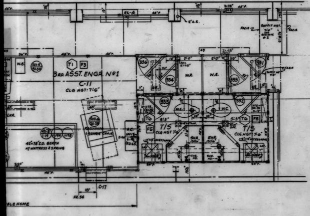
GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-533-01-09GD NO. 30574-30x03FRAME ① 2 3 4

M.A. DWG NO. 241-533-01-09



54 53 52 ℄ OF SHIP

FOR CABIN DECK FRS34-52
SEE REF Nº9



JOINER SYMBOLS

HINGE SIDE — HINGED ACCESS PANELS
STEEL BULKHEAD
PANEL SIZE→24"P — JOINER BULKHEAD
PANEL SIZE →24"P — JOINER LINING
SHEET METAL LINING
JOINER BHD W/ 2" P.B. COAMING UNDER.
FIXED LIGHT, CO. SIZE, JOINER DOOR Nº, SWITCH IN FR. (WHERE REQ'D. — JOINER DOOR
STEEL DOOR
CURTAIN, BLACKOUT SHADE — WINDOW
C-00 — CASING Nº.
J.M.D. ILLUSTRATION Nº
J.M.D. ELEVATION Nº

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION	VENDOR Nº
65	CLG. FIXT. FLUOR, TYPE 1 (2) 20W, RECESSED - N.W.T.	SIMES - 45539
66	CLG. FIXT. FLUOR, TYPE 1 (3) 20W, RECESSED - N.W.T.	SIMES - 46906-320
67	MIRROR LIGHT, FLOUR, TYPE 3, 15W, W/RECPT & SWITCH	SIMES - 48194
68	MIRROR LIGHT, FLUOR, TYPE 3, 15W, W RECP.	SIMES - 48194
69	CORNICE LIGHT, FLUOR, TYPE 13, 40W, SURF. MTD. - NWT.	SIMES - 46377
73	CLG FIXT. FLUOR, TYPE 15, (1) 20W, SURF. MTD. - NWT.	SIMES - 46883
74	CLG FIXT. FLUOR, TYPE 15, (2) 20W, RECESSED, NWT.	SIMES - 46902
75	CLG FIXT. FLUOR, TYPE 15 (3) 20W, RECESSED, NWT.	SIMES - 47889
76	CLG. FIXT. FLUOR, TYPE 13, (1) 40W, RECESSED, NWT	SIMES - 46884
79	DESK LIGHT, FLUOR, TYPE 19, (2) 8W, BHD MTD, NWT	SIMES - 45552-2
80	DESK LIGHT, FLUOR, TYPE 19, (2) 8W, DESK MTD, NWT.	SIMES - 48358 (R)
92	DOWN LIGHT, INCAND, TYPE 34, 40W, RECESSED, NWT.	SIMES - 45554 (R)
95	BERTH / LOUNGE CHAIR LIGHT, INCAND. 30W.	SIMES - 47413
96	~~CLG FIXT, FLUOR, TYPE 55, (4) 20W, RECESSED, NWT~~	~~SIMES - 45972~~
301	DIAL TELEPHONE SET (BHD MTD)	HOSE McCANN 247-01
302 309	WATCHCALL ROOM UNIT (FLUSH MTD-302) (SURFACE MTD-309)	HOSE McCANN 500-01
303	GEN ALARM DISTR. PANEL (4 CKT)	LOVELL DRESSEL CAT. Nº 4077
304	ENGR EMERG. ALARM BELL (3")	HENSCHEL 20-162
305	GEN. ALARM BELL (8")	HENSCHEL 20-163
306	RADIO - POWER OUTLET BOX ASSEMBLY	COMM. RADIO A-22764
307	ENGR EMERG. ALARM BELL (8")	REEVE - BUDTY-DC
308	CLOCK (6" DIAL) SEMI FLUSH MTD.	SIMPLEX - 1653 - 086
	RECEPTACLE	
✕	SWITCH	
96	CLG FIXTURE, FLUOR, TYPE 55, (4) 20W, RECESSED, NWT	SIMES - 45972

RESERVATIONS

1- ~~CEILING LAYOUT PENDING RECEIPT OF ELECTRICAL & VENTILATION.~~
2- ~~FIRE STATION DOORS PENDING DEVELOPEMENT~~
3- ~~A.C. UNITS IN PASSAGES.~~
4- ~~DRINKING FOUNTAINS IN PASSAGES.~~

FINISH SYMBOLS

BULKHEADS	T1	PLASTIC - GREEN MISTLETOE, MICARTA #91-M-07
	T3	PLASTIC - AZTEC TAN, MICARTA #90-M-70
	T6	PLASTIC - GREY CATHAY, MICARTA# 81-M-04
TRIM	F3	PAINT - R-195 RENAISSANCE GREEN; DUPONT #IMG-266
	F5	PAINT - R-170 GREY LEEK; DUPONT # IMN-137
	F6	PAINT - L-106 ALMOND; DUPONT # IMN-196

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
6A,7A,10B, 9F,18F & 19B	A (CONT)	11. CORRECTED FORE & AFT DIMENSION OF T/S IN SR. C-9, C-11, C-13, C-15, C-17, C-22, & C-36 FROM 5'-4" TO 5'-3"	10/29/70	R.J.				
		12. ADDED NOTES TO INDICATE SLOPING LINING.						
		13. ITEMS 2-12 OF REV "A" MADE TO SUIT MARKED UP PRINT AND J.J.HENRY LTR FILE 5589/533/AHS-338-70 DTD 7-22-70.						
3B		14. ADDED REF Nº 11						
10F, 10G, 19B & 19G		15. ADDED NOTES FOR REF. DWGS FOR LINEN LKR, BULB LKR, CREW BAGG & ENGR'S STORES.						
7G, 12G, 14G, & 16G		16. RELOCATED DRAINS IN SQUARE SHR, STALLS FROM 17" TO 20".						
ALL		17. ADDED ELECTRICAL FIXTURES & ELECTRICAL SYMBOL LIST.						
4B		18. RELEASED RES Nºs 2 & 3.						
		19. ITEMS 14 THRU 18 OF REV "A" MADE TO SUIT MARKED UP PLANS AND QSD LTR. FILE 320A/533/(11) RAJ/KDB-55515 DTD JUNE 19, 1970, & QSD LTR FILE 320A/533 (11) FGR/KDB-55593 DTD JULY 13 1970						
12A, 13A, 14A, 15A, 17A & 18A		20. REVISED WINDOW CASINGS Nº C-21, C-23, C-25, C-27, C-29 & C-31 TO SUIT DEVELOPMENT.						
8A, 9A, 11A, 14A, 18A		21. DELETED BERTH SHELF IN S.R.# C11, C13, C15, C17 & C19.						
7G THRU 18G		22. ADDED ELEV.# TO BERTH SHELF IN S.R.# C18, C20, C22, C24, C26, C28, C30, C32, C34 & C36.						
	B	1- PLAN REV "A" APPROVED BY JJH LTR FILE 5589/533/JUM-527-70 DTD NOV 19 1970.	1/29/71	F. Koff				
19B		2- RELOCATED STL BHD FROM 24" FWD FR70 STBD SIDE TO 21" FWD FR70 TO SUIT QSD DWG Nº 30607-101 ALT. "E".						
19B		3- REARRANGED SHELVING IN ENGR'S STORES FRS 70 STBD TO SUIT QSD PLAN 30211-58x5.						
20B & 20F		4- RELOCATED STIFF'S ON BHD FR.71 PORT & STBD TO SUIT QSD DWG Nº'S 30607-101 & 30606-101.						
6BH-20BH		5. REVISED ELECTRICAL LAYOUT TO SUIT MARKED UP PRINT FROM QSD W/ LTR, FILE 320A/533/(11)/SJG/AND/RMS-56516.						
13B		6- REVISED ARRANGEMENT IN 1ST ASST ENGR'S RECEPTION RM. TO SUIT JJH SK# 5589-533-120970 & JJH LTR FILE 5589/533/JUM-555-70 DTD DEC. 9, 1970.						
6BH-20BH		7- ADDED ACCESS PNLS TO SUIT MARKED UP PRINT FROM QSD W/ LTR FILE 320A/533/(11) JNM/AND/RMS-56343 DTD DEC 14 1970 & QSD PIPING PLANS.						
6BH-20BH		8- REVISED LINING DEPTHS ON INBOARD SIDE OF PORT & STBD PASSAGES TO SUIT QSD ELECTRICAL, PIPING, MECHANICAL & VENTILATION PLANS.						
2A		9.- ADDED USPHS & USCG APPROVAL DATE						
4A		10- ADDED FINISH SYMBOL LIST & INDICATED FINISH SYMBOLS IN COMPARTMENTS.				IRH# 0332 4-29	5-01-070 71	
6BH-20BH		11- ADDED HINGED ACCESS PANEL TO JOINER SYMBOL LIST.						
8B		12- ADDED GENERAL NOTE Nº 1						
		REV B CONTINUED PANEL 21						

GENERAL NOTES

1. "Z" DIMENSION = HEIGHT ABOVE DECK TO BOTTOM OF ELEC. EQUIP.
2. FOR DETAILS IN WAY OF SOFFITS SEE REF Nº 9 SECTIONS "20-A", "20-B" & "20-C".

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1- PLAN REV "O" APPROVED BY J.J.HENRY LTR FILE 5589/533/AHS-338-70 DTD 7-22-70.						
16B		2- ARM CHAIR IN CH. ENGR'S OFFICE RELOCATED TO AFT SIDE OF DESK FACING FWD.						
15B		3- RELOCATED READER PRINTER IN CH. ENGR'S OFFICE TO ABOUT 28" INBOARD OF OUTBD BHD.						
7A, 16A & 17A		4- RELOCATED WINDOWS IN CH. ENGR'S OFFICE, SR. C11 & SR. C-19.						
9G & 10G		5- RELOCATED KEY LKRS IN BOSUN & ELECTRICIAN SR'S. TO OUTBD BHD. WITH DOOR HINGING AFT.						
18G		6- CHANGED 1ST ELECTRICIAN TO ELECTRICIAN.						
6C-20C & 6F-20F		7- INDICATED HANDRAILS IN PASSAGES.						
13C & 14F		8- REVISED LINING IN WAY OF DRINKING FOUNTAINS RELEASED RES Nº 4.						
ALL		9- INDICATED CEILING LAYOUTS & ADDED CLG. HGTS. RELEASED RES Nº 1.						
6A-20A & 6G-20G.		10- SHELVES OVER BERTHS RELOCATED FROM 2'-0" TO HEAD OF BERTH TO 4'-0" FROM HEAD OF BERTH.						
		REV "A" CONTINUED IN PANEL 3						

REVISIONS	O	A	B	C	F	G	H	J			
TO					1/6/2	2/14/3	4/4/72	11/2/72			
LYKES					1	1	1	1			
M.A.(WASH)					1	1	1	1			
M.A.(YARD)					1	1	1	1			
J.J.HENRY(YARD)					1	1	1	1			
J.J.HENRY(HOME)					2	2	2	2			
ABS Y/D					1	1	1	1			
USCG Y/D					1	1	1	1			
USPHS											
871					4	4	4	3			
872											
873											
874											
875											
876	C. SAVAGE						1	1			
LIA Bldg 108					1	1	1	1			
866					1	1	1	1			
TOTAL NRO'S FS											
TOTAL NRO'S HS					14	14	15	14			
TOTAL RO											

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
	3/D	11/10/0	800		24
		3/11/2	820		5
	H/J	4/3/2	826		12
		11/2/0	829		
			830		7
			841		1
			842		
			843		
			844		5
			899		
			LIBRARY		3
			TOTAL		37

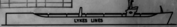
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED	
H	5-12-72
J	5-11-73

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	J.M.D. DWG. Nº	Q div DWG NO.	M.A. DWG NO.
15				
14				
13				
12	ARRGT STRNG, SHOPS & SPCS - CABIN DK AFT		30211 - 58x05	241-530-01-09
11	STOREROOM DETAILS	9560-SD-1	30578 - 10x01	241-530-01-13
10	PLUMBING FIXTURES SCHEDULE		30656 - 9x01	241-536-01x01
9	JOINER GEN. ARRGT. FRS. 34-52	9560-JA-4	30574-30x02	241-533-1-8
8	STAIRS - LAYOUT & DETAILS	9560-S-1	30537-15x01	241-516-4-27
7	CURTAINS - SCHED & DETAILS	9560-CR-1	30571-25x01	241-533-6-3
6	PASSAGE STORM RAILS & RAILS IN WHEELHOUSE & CHART RM.	9560-HR-1	30532-08x01	241-516-4-26
5	WINDOW CASINGS - SCHED. & DETAILS	9560-AW-1	30546-10x01	241-512-03-02
4	LIST OF FURNITURE	9560-FE-1	30571-20x02	241-533-06-04
3	FURNITURE ILLUSTRATIONS	9560-FI-1	30571-20x01	241-533-6-2
2	SCHED. JOINER DOORS, ELEV. & DETAILS	9560-JDR-1	30574-15x03	241-516-3-1
1	TYPICAL JOINER DETAILS	9560-JD-1	30574-15x01	241-533-1-4

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO.
30574-30x03

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN J.M.D.
DSGNR
SUPV
ENGR

JOINER GENERAL ARRANGEMENT
CABIN DECK-FRS.52-71

APPROVED DATE 6-16-70
R.C. Jacobson
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS
USCG DEC. 9, 1970
USPHS FEB. 8, 1971

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-533-01-09	J

SCALE 1/2" = 1'-0" SHEET OF

OWNER APPROVAL 7-22-70
A.V.M. CORPORATION
JAMESTOWN METAL DIVISION
P.O. BOX I RONKONKOMA, N.Y., 11779
J.M.D. DWG. Nº 9560-JA-4 REV E

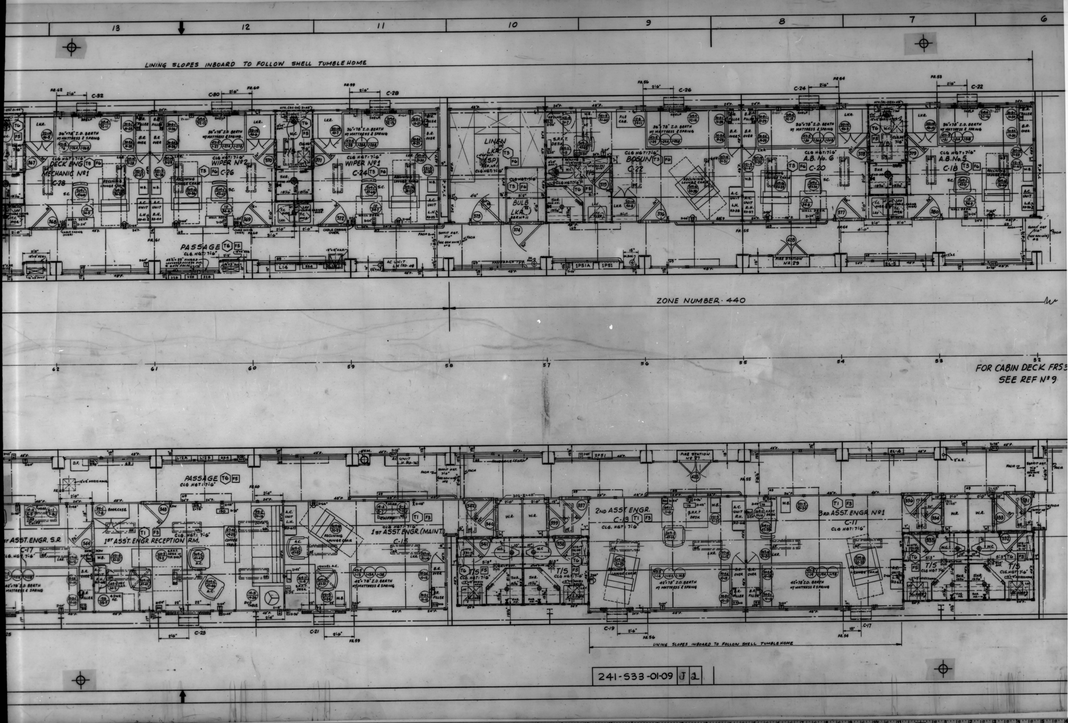
AREA = SQ FT

DWG. NO. 30574-30x03

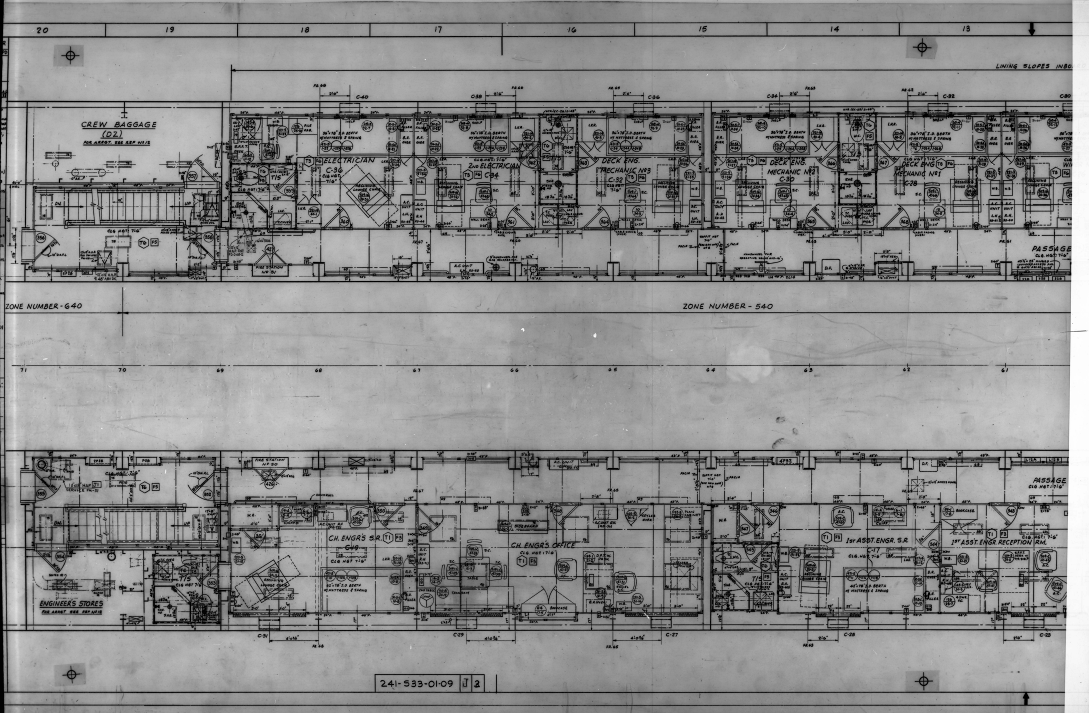
Q div DWG NO. 30574-30x03

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-533-01-09GD NO. 30574-30x03FRAME 1 ② 3 4

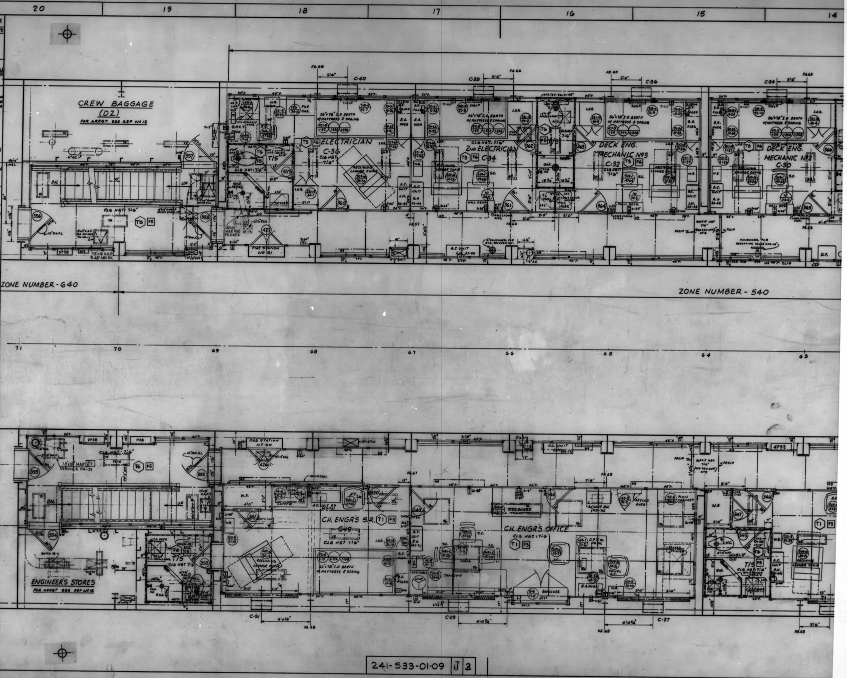


13
12
11
10
9
8
7
6
LINING SLOPES INBOARD TO FOLLOW SHELL TUMBLE HOME
C-32
C-30
C-28
C-26
C-24
C-22
DECK ENG MECHANIC Nº1 C-28
WIPER Nº2 C-26
WIPER Nº1 C-24
LINEN LKR.
BULB LKR.
BOSUN C-22
A.B. No. 6 C-20
A.B. No. 5 C-18
36"x78" I.D. BERTH W/ MATTRESS & SPRING
RECLINING LOUNGE CHAIR
CLG HGT. 7'-6"
PASSAGE
CLG. HGT. 7'-6"
FIRE STATION Nº 29
ZONE NUMBER - 440
62
61
60
59
58
57
56
55
54
53
52
FOR CABIN DECK FRS 3
SEE REF Nº 9
PASSAGE
CLG HGT. 7'-6"
FIRE STATION Nº 27
1st ASST. ENGR. S.R. C-17
1st ASST. ENGR. RECEPTION RM.
1st ASST. ENGR. (MAINT.) C-15
2nd ASST. ENGR. C-13
3rd ASST. ENGR. Nº1 C-11
T/S
42"x78" I.D. BERTH W/ MATTRESS & SPRING
BOOKCASE
C-23
C-21
C-19
C-17
LINING SLOPES INBOARD TO FOLLOW SHELL TUMBLE HOME
241-533-01-09 J 1


20
19
18
17
16
15
14
13
LINING SLOPES INBOARD
CREW BAGGAGE
(DZ)
FOR ARRGT. SEE REF NO 12
ELECTRICIAN
C-36
2ND ELECTRICIAN
C-34
DECK ENG.
MECHANIC NO3
C-32
DECK ENG.
MECHANIC NO2
C-30
DECK ENG
MECHANIC NO1
C-28
FIRE STATION
NO 31
PASSAGE
CLG. HGT. 7'-6"
ZONE NUMBER - 640
ZONE NUMBER - 540
71
70
69
68
67
66
65
64
63
62
61
FIRE STATION
NO 30
CH. ENGR'S S.R.
C-19
CH. ENGR'S OFFICE
CLG HGT. 7'-6"
1ST ASST. ENGR. S.R.
C-17
1ST ASST. ENGR. RECEPTION RM.
PASSAGE
CLG HGT. 7'-6"
ENGINEER'S STORES
FOR ARRGT SEE REF NO 12
C-31
C-29
C-27
C-25
C-23
241-533-01-09
J
2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-533-01-09GD NO. 30574-30×03FRAME 1 2 ③ 4

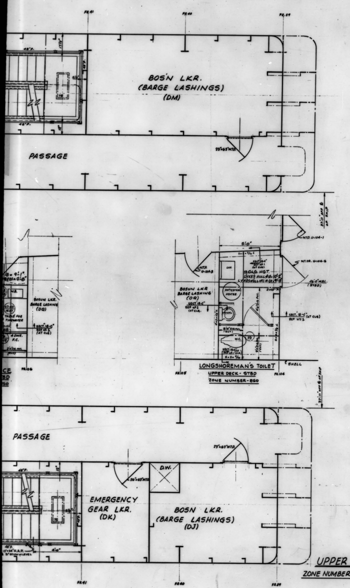
REVISIONS			Q div.		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
6BH-20BH 6E-20E	B (CONT)	13-ADDED AND REVISED FURN. ELEV & ILLUSTRATION NOS TO SUIT REV B OF REF NO4. 14-ADDED ZONE NUMBERS TO BODY OF PLAN.	4/29/71					
3B 6C&G,11C&G 15C&G 7B,9B,6B,7B,10B,15B,16B,13C,15B,16B,18B 19B 10G 16B 19B, 19G 3C 18C 19B, 19F 12F, 14F	C	1-PLAN REV "B" APPROVED BY J.J.HENRY FIELD REP. IRM NO5-01-0382 DTD 4-24-71 2-REVISED TITLES & PLAN NOS IN LIST OF REF'S. 3-INDICATED SOFFITS IN P & S PASSAGES IN WAY OF TRANSVERSE FRS 52, 58 & 64 P/S TO SUIT DEVELOPMENT. REVISED CLG PANEL LAYOUT IN P&S PASSAGES TO SUIT. ADDED GENERAL NOTE NO 2. 4-REVISED HINGED ACCESS PANELS TO ACCESS OPENINGS IN THE FOLLOWING LOCATIONS a) T/S FOR AB NO5 & AB NO6, b) BOSUN T/S, c) 3RD ASST ENGR NO2 T/S, d) 3RD ASST ENGR NO1 T/S, e) 2ND ASST ENGR T/S, f) 1ST ASST ENGR (MAINT) T/S, g) T/S FOR WIPER NO1 & WIPER NO2, h) T/S FOR DK.ENG.MEC.NO1 & DK.ENG.MEC. NO2, i) STBD PASSAGE FR 62, j) (2) 1ST ASST ENGR T/S, k) T/S FOR DK.ENG.MEC. NO3 & 2ND ELECT. l) ELEC. S.R. 5-ADDED 12"x12" ACCESS OPNG. IN CH. ENGRS T/S OVER LAV TO SUIT ENCL. 4 OF GD/Q LTR FILE 320A/533/(11)/SJG/AND/RHS-56667 DTD APRIL 13 1971. 6-REVISED DESIGNATION OF LINEN LKR FRS 57-58 PORT FROM (SO) TO (SP) 7-RELOCATE SYN NO 308 IN CHIEF ENGRS OFFICE. 8-DELETED ARRGT OF CREW BAGGAGE FR 70 P. & ENGR'S STORES FR 70 S. AND REFERRED ARRGTS TO REF NO 12, ADDED REF NO 12. 9-ITEMS 6, 7, & 8 OF REV "C" MADE TO SUIT ENCL. 3 W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56707 DTD APRIL 30 1971. 10-DELETED HINGED ACCESS PANEL STBD. PASSAGE FR 68-69 TO SUIT ENCL. 3 W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56725 DTD MAY 5 1971 11-ADDED HINGED ACCESS PANELS TO SUIT ENCLOSURES 3 & 4 W/ GD/Q LTR. FILE 320A/533/(11)/SJG/AND/JJM-56766 DTD MAY 18 1971. 12-REVISED LINING IN WAY OF 16"x5" DUCTS FR 60+ & FR 62+ PORT SIDE TO SUIT GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56874 DTD JULY 15 1971	9/20/71				1 OCT 1971	
13C, 14F 14C 7F, 8F, 11F, 12F, 13F, 14F, 16F, 13G 18G 6C&G, 11C&F, 15C&F 17C 14C 19H 12F 12F 12F 16C 12C 7B, 9B 15BC-17BC 15BC-17BC 5C 14F 20F.	D	1-PLAN REV "C" APPROVED BY J.J.H. FIELD REP. OCT. 1 1971 & GD/Q LTR FILE 320A/533/(11)/SJG-AND/JJM-57029 DTD OCT 15 1971 2-ADDED MICROFILM MARKS TO SUIT GD/Q LTR. FILE 320A/533/(11)/SJG/AND/JJM-56855 DTD JULY 8 1971 3-RELOCATED DRINKING FOUNTAIN DISCONNECT SWITCH FROM Z=48" TO Z=54" FR 61+S, FR 62+P. 4-DELETED RECEPT, INBD PASSAGE BHD FR 69+ STBD. 5-RELOCATED RECEPTS FOR WALL DESKS FROM Z=36" TO Z=24" IN SR'S. C-18, C-20, C-24, C-26 C-28, C-30, C-32 & C-34. 6-RELOCATED WATCH CALL UNIT PC 302 FROM OUTBD BHD TO AFT BHD IN S.R. C-36. 7-RELOCATED GEN. ALARM BELL PC 305 FROM Z=72" TO Z=78" FR 52+ P/S, FR 60+ P/S & FR 66+ P/S. 8-RELOCATED RECEPT. AT SIDE BOARD FROM Z=36" TO Z=48" IN CHIEF ENGRS OFFICE 9-RELOCATED RECEPT. AT CHIFFONIER FROM Z=36" TO Z=48" IN 1ST ASST ENGRS S.R. 10-RELOCATED ELEC CONVECTOR EC-39 FROM FR 71 PORT TO FR 69 P. 11-RELOCATED GR. AMMETER PC 334, LIGHTING PNLS L-14 & 2L14 FROM FR 60½ P. TO FR 59½ P. 12-RELOCATED (3) TRANSFORMERS PC 328 FROM FR 61½ PT TO FR 60½ PORT. REVISED LINING. 13-RELOCATED GEN. ALARM BELL PC 305 FROM FR 59¾ TO FR 60½ PORT. 14-RELOCATED ELEC. CLOCK PC 308 IN CHIEF ENGRS OFF. FROM OUTBD BHD. TO INBD BHD OVER SIDEBOARD 15-RELOCATED ELEC. CLOCK PC 308 IN CHIEF ENGR'S RECEPT RM. FROM OUTBD. BHD. TO INBD BHD. 16-RELOCATED LOUNGE CHAIR LIGHT PC 95 IN SR C-11 & SR. C-13. 17-REVISED CLG FIXTURE FROM PC 1 TO PC 96 IN CHIEF ENGRS OFFICE 18-RELOCATED CLG. FIXTURES IN CH. ENGRS OFFICE & ADDED ONE (1) PC 96 OVER READER PRINTER. 19-IN ELECTRICAL SYMBOL LIST REVISED SYMBOL FOR PC 96 20-ITEMS 3 THRU 19 MADE TO SUIT IRM COMMENTS W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56986 DTD SEPT 23 1971. 21-ADDED 12"x12" H.A.P. ON INBD PASSAGE LINING BHD, 3'-5" FWD FR 63 PORT (RELOCATED "H" POST TO SUIT). TO SUIT AEA# 5-0810-LYKES W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-57016 DTD OCT 7 1971 22-ADDED 12"x12" H.A.P. FOR VALVES FR 70+ IN PORT STAIR HALL TO SUIT GD/Q PLAN NO 30606-200 REV. "G".						
16B 19F	E	1. PLAN REV "D" APPROVED BY J.J.H. YARD REPR BY IRM # 5-07-08. 2. ADDED THERMOSTAT ON OUTBD. BHD FR 65 STBD. FOR AC UNIT RD-70 TO SUIT GD/Q PLAN NO 30517-231 REV. "G". 3. ITEM 1 OF AEA # 5-0934 WAS ACCOMPLISHED BY ITEM 11 OF REV "C". THIS INCORPORATES AEA # 5-0934. (SMG NOV 30 1971) 4. INDICATED HINGED, LOUVERED ACCESS PNL (45½" x 25") ON INBD JOINER LINING OF PASSAGE FRS 60-61 PORT TO SUIT AEA # 5-0926. THIS INCORPORATES AEA # 5-0926. (SMG. DEC. 1, 1971)						
18-F 18-F 20-F	F	1. RELOCATED 12"x12" H.A.P. PORT ONLY, FROM SHR TO PASS. 23" FWD FR 69 TO SUIT RELOC FIRE DAMPER C-68-2. 2. RELOCATED 6"x6" REG. PORT ONLY, FROM SHR TO PASS. 30" FWD FR 69 TO SUIT RELOC FIRE DAMPER C-68-2. 3. ADDED 12"x12" H.A.P. ON INBD JOINER LINING OF PASS. 24" AFT OF FR 70 PORT ONLY TO SUIT VALVES. SOURCE: ITEM #1 & 2 872 DEPT IRM DATED 11-8-71 ITEM #3 AEA 5-0993-LYKES	A.F.	1/6/72				
6,7,8,11,12,13,14,15,16 & 17. VARIOUS	G	1-THERMOSTATS IN WAY OF WINDOW CURTAINS RELOC. TO 28" FROM ℄ OF WINDOW TO CLEAR CURTAIN. 2-ELECTRICAL SYMBOL LIST ADDED TO AND SYMBOLS ON PLAN CORRECTED TO AGREE WITH LIST. SOURCE: ITEM #1 INCORPORATES AEA NO. 5-1074 LYKES ITEM #2-DES. CORRECTION.	2/14/72 A.J.V.					
11, 12, 13 14, 16	H	1. WATCHCALL UNITS IN COMPTS C-58-4 WIPER #1, C-59½-4 WIPER #2, C-61-4 DECK ENG MECH #1, C-62½-4 DECK ENG MECH #2, C-64-4 DECK ENG MECH #3 AND C-67-4 1ST ELECT, RELOC. FROM Z=48" TO Z=54" SOURCE: DES CORRECTION (876 DEPT. IRM DTD. 3-31-72	4/4/72 A.J.V.					
20B	J	1. ADDED 18"x18" HAP ABT 39'-6" OFF ℄ (S) & 2'-11" FWD FR 71 FOR SERVICING FM-51 SOURCE: INCORP AEA-S-1421-LYKES	11/?/72 FF					



241-533-01-09 J 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-533-01-09GD NO. 30574-30x03FRAME 1 2 3 ④

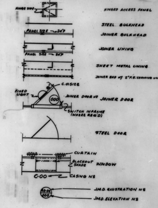
GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-S33-01-10 GD NO. 30574-40x01 FRAME ① 2 3 4


FR 41
FR 40
FR 39
BOS'N LKR.
(BARGE LASHINGS)
(DM)
PASSAGE
25"x63" W.T.D.
37'-11" OFF ℄ OF SHIP
MTD. U-104-1
5'-0"
W.T. DR. U-104-6
MTD. U-104-3
LAV.
19 CLG. HGT.
LYKES HULL #18: 10'-2"
LYKES HULL NOS 19-20: 9'-8"
46'-0" MBL. (STBD)
BOSUN LKR
BARGE LASHING
(DQ)
SECT. 18-C" REF Nº 1 (AT CLG.)
HOT WATER HEATER
URINAL
W.C.
19
℄ SHELL
FR 105
FR 104
FR 106
BOSUN LKR.
BARGE LASHING
(DQ)
W.B.
TABLE FOR TYPEWRITER
4 DWR. F.C.
18 = 9'-1"
19 & 20 = 9'-8"
PASSAGE
25"x63" W.T.D.
D.W.
EMERGENCY
GEAR LKR.
(DK)
BOSN LKR.
(BARGE LASHINGS)
(DJ)
FR 41
FR 40
FR 39

LONGSHOREMAN'S TOILET
UPPER DECK - STBD
ZONE NUMBER - 850

UPPER DECK
ZONE NUMBER -360

JOINER SYMBOLS


HINGE SIDE
HINGED ACCESS PANEL
STEEL BULKHEAD
PANEL SIZE - 24"
JOINER BULKHEAD
JOINER LINING
PANEL SIZE - 24"
SHEET METAL LINING
JOINER END W/ 2" F.B. COAMING UNDER
C.O. SIZE
FIXED LIGHT
000
JOINER DOOR Nº
JOINER DOOR
SWITCH INFRAME (WHERE REQ'D)
STEEL DOOR
CURTAIN
BLACKOUT SHADE
WINDOW
C-00
CASING Nº
00-00
000
J.M.D. ILLUSTRATION Nº
J.M.D. ELEVATION Nº

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION	VENDOR
65	CEILING FIX, FLUOR., TYPE 1, (2) 20W, RECESSED, N.W.T.	- SIMES 45539
66	CEILING FIX., FLUOR., TYPE 1, (3) 20W, RECESSED, N.W.T.	- SIMES 46906-320
75	CEILING FIX., FLUOR., TYPE 15, (3) 20W, RECESSED, N.W.T.	- SIMES 47489
79	DESK LIGHT, FLUOR, TYPE 19, (2) 8W, BHD. MTD. N.W.T.	- SIMES 45552-2
95	BERTH/LOUNGE CHAIR LIGHT, INCAND, 30W.	- SIMES 47413
301	DIAL TELEPHONE SET (BHD MTD)	- HOSE McCANN 247-01
305	GENERAL ALARM BELL (8")	- HENSCHEL 20-163
306	RADIO/POWER OUTLET BOX ASSEMBLY	- COMM RADIO A-22764
	RECEPTACLE	
302	SECONDARY CLOCK - 6" DIAL - SEMI-FLUSH MTD.	- SIMPLEX 1653-086
80	DESK LIGHT - DESK MTD.	
19	DECK FIXTURE, TYPE 23, 100W, RLM, W.T	PAULUHN #1749 BMT
88	CEILING FLUOR., TYPE 26, (2) 40W, SURFACE MTD, D.P.	SIMES #46905-DP

FINISH SYMBOLS

BULKHEADS	T1	PLASTIC: GREEN MISTLETOE, MICARTA #91-M-07
	T3	PLASTIC: AZTEC TAN, MICARTA #90-M-70
	T6	PLASTIC: GREY CATHAY, MICARTA #81-M-04
TRIM	F3	PAINT; R-195, RENAISSANCE GREEN; DUPONT #IMG-266
	F5	PAINT: R-170, GREY LEEK; DUPONT #IMN-137
	F6	PAINT: L-106, ALMOND; DUPONT #IMN-196

RESERVATIONS

1 ~~CEILING LAYOUT PENDING RECEIPT OF ELECTRICAL & VENTILATION PLANS~~
~~2- ACCESS PANELS TO PIPE & DUCT SPACES~~
3- LOCATIONS OF ELECTRICAL FIXTURES IN LONGSHOREMAN'S TOILET & CLERKS OFFICE PENDING RECEIPT OF ELEC. PLANS FOR HOD 817 & 903

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. PLAN REV O APPROVED BY J.J.H. LTR FILE 5589/533/AHS-394-70 DTD AUG 26 1970	11/19/70					
ALL B, ALL G		2. ADDED ARR'GT OF CEILING PANELS.						
4B		3. RELEASED RES Nº 1						
4E, ALL E, ALL G		4. ADDED ELECTRICAL SYMBOL LIST AND ELECTRIC EQUIP TO DECKS						
10G, 18G, 18G		5. REPLACED METAL LINING RETURNS W/ MICARTA FACED MARINITE						
12G, 14G, 14G		6. INDICATED SIZES OF ACCESS PNLS						
4B		7. RELEASED RESERVATION Nº 2						
		8. ITEMS 2-7 OF REV "A" MADE TO SUIT J.J. HENRY LTR FILE 5589/533/AHS-394-70 DTD AUG 26 1970						
		9 REVISED WINDOW CASING IN PILOTS S.R. TO SUIT REF Nº 5.	AS					
	B	1. PLAN REV. A APPROVED BY J.J.H. LTR. FILE: 5589/533/JUM-574-70 DTD. DEC. 23, 1970.						
		REV B CONTINUED IN PANEL 3						
ALL	B (CONT)	2. REVISED ELECTRICAL FIXTURES TO SUIT MARKED UP PRINT W/ QSD LTR FILE 320A/533/(11)/SJG/AND/RMS-56516, DTD. FEB. 18, 1971. ADDED GEN. NOTE Nº 1.						
3B		3. REVISED TITLE OF DWGS IN REFERENCE COLUMN, ADDED M.A. NOS & ADDED REF Nº 11 TO SUIT MARKED UP PRINT W/ QSD LTR. FILE: 320/533/(11)/JMN/AND/RMS-56288, DTD. NOV. 13, 1970.						
13G, 19G		4. ADDED ACCESS PANELS TO SUIT MARKED UP PRINT W/ QSD LTR FILE 320A/533/(11)/JNM/AND/RMS-56343 DTD DEC 14 1970. INDICATED SYMBOL FOR HINGED ACCESS PANEL TO SYM. LIST.						
18G, 19G		5. INDICATED 2" F.B. COAMING AROUND PERIMETER OF T/S IN CHIEF STWD'S SR. & PILOTS S.R. ADDED SYMBOL TO JOINER SYMBOL LIST.						
12 F.		6. REVISED DESK IN CHIEF STWD'S S.R. TO SUIT J.J.H. SKETCH 5589-533-120970 & J.J.H. LTR FILE 5589/533/JUM-555-70 DTD. DEC. 9, 1970.						
ALL		7. REVISED FURNITURE ELEV & ILLUSTRATION NO'S TO SUIT REV B OF REF #4.						
2A		8. ADDED U.S.P.H.S. & USCG. APPROVALS TO TITLE BLOCK.						
ALL		9. ADDED FINISH SYMBOL LIST & INDICATED FINISHES IN COMPARTMENTS.						
1A		10. ADDED ZONE NUMBER TO TITLE BLOCK	5/5/71	F. Rolfe			5/5/71	
	C	1- PLAN REV. B APPROVED BY J.J. HENRY FIELD REPRESENTATIVE / J.V. MacKENZIE IRM-5-07-0336 DTD 5/5/71.						
6D, 5D		2. ADDED ARR'GT. OF LONGSHOREMANS TOILET UPPER DECK FR 104-105 STBD TO SUIT ADDITION OF JOINER CEILING PER GD/Q LTR FILE 320A/533/(11)/SJG/AND/JNM-56789 DATED JUNE, 1, 1971.	9/20/71 A.J.V.	F. Rolfe			1 OCT 1971	
8D		3 ADDED ARR'GT OF CLERKS OFFICE, UPPER DECK FR 106-107 STBD TO SUIT DEVELOPMENT & INDICATED JOINER CEILING TO SUIT GD/Q LTR. FILE 320A/533/(11)/SJG/AND/JNM-56789 DATED JUNE, 1, 1971.						
1A, 6A, 11A, 16A		4- DELETED ZONE NUMBER FROM TITLE BLOCK & INDICATED ZONE NUMBER FOR EACH DECK LEVEL.						
5B.		5- ADDED RES. Nº 3						
10G&F, 11G&F, 20G&F		6- REVISED JOINER LININGS TO CLEAR CHOCKS ON WEBS AT FRS 39, 40, 41 & 42 ON BHD 37'-11" OFF ℄ P/S.						
12G		7- CORRECTED COLOR OF BHDS & TRIM IN CHIEF STWD'S S.R. 01 LEVEL, PORTSIDE.						
	D	1- PLAN REV "C" APPROVED BY J.J.H. FIELD REP. OCT 1 1971 & GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-57039						
		2- ADDED MICROFILM MARKS TO SUIT GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56855 DTD JULY 8 1971						
6D, 8D		3- REVISED CLG HGTS IN LONGSHOREMAN'S TOILET & CLERKS OFFICE TO SUIT MARKED UP PLAN W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56897, 9/24/71						
18G, 20G		4- REVISED CLG. HGTS. IN PILOTS S.R. & PASSAGE, 02 LEVEL PORT TO SUIT IRM COMMENTS W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56980 DTD SEPT 21 1971						
20B, 20G		5- ADDED HINGED ACCESS PNLS IN PORT & STBD STAIRHALL 02 LEVEL TO SUIT GD/Q PLAN NR 30524-230 REV O.						
15C		6- RELOCATED RECEPT ON 01 LEVEL FR 41½ STBD TO FWD SIDE OF POWER PANEL P-52						
18A-B		7- IN SHIPS OFFICE ON 02 LEVEL - RELOCATED THE TWO (2) FWD. LIGHT FIXT'S. PC-66 OVER WORK TABLE TO LINE UP W/ THE TWO (2) AFT LIGHT FIXT'S.						
		REVISION "D" CONTINUED PANEL 16						

GENERAL NOTES

1. "Z" DIMENSION - FROM DECK UP TO BOTTOM OF EQUIPMENT.

REVISIONS	O	A	B	C	E	F
TO					1/6/2	2/29/2
LYKES					1	1
M.A.(WASH)					1	1
M.A.(YARD)					1	1
J.J.HENRY(YARD)					1	1
J.J.HENRY(HOME)					2	2
ABS					1	1
USCG					1	1
USPHS						
871					4	4
872						
873						
874						
875						
876						
LIA BLDG 108					1	1
866					1	1
TOTAL NRO'S FS						
TOTAL NRO'S HS					14	14
TOTAL RO						

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
	E	1/10/2	800	4	
	F	3/1/2	820	5	
			826	12	
			829		
			830	7	
			841		
			842		
			843		
			844	5	
			899		
			LIBRARY	3	
		[illegible]	[illegible]	1	
			812	1	
			TOTAL	38	

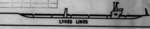
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
F 12-27-72

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	J.M.D. DWG. Nº	Q div DWG NO.	M.A. DWG NO.
16				
15				
14				
13				
12				
11	ARR. STRMS, LKRS & SPARES ABV. UPP. DK		30211-58x8	241-S30-01-12
10	STOREROOM DETAILS	9560-SD-1	30575-10x01	241-S30-1-13
9	PLUMBING FIXTURES SCHEDULE		30656-9x01	241-S36-01x01
8	STAIRS - LAYOUT & DETAILS	9560-ST-1	30537-15x01	241-S16-4-27
7	CURTAINS SCHED & DETAILS	9560-LR-1	30571-25x01	241-S33-6-3
6	PASSAGE STORM RAILS & RAILS IN WHEELHOUSE & CHART RM.	9560-HR-1	30532-08x01	241-S16-4-26
5	WINDOW CASINGS - SCHED & DETAILS	9560-AW-1	30546-10x01	241-S12-3-2
4	LIST OF FURNITURE	9560-FE-1	30571-20x02	241-S33-6-4
3	FURNITURE ILLUSTRATIONS	9560-FI-1	30571-20x01	241-S33-6-2
2	SCHEDULE JOINER DOORS, ELEVS & DETAILS	9560-JDR-1	30574-16x03	241-S16-3-1
1	TYPICAL JOINER DETAILS	9560-JD-1	30574-15x01	241-S33-1-4

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

Q div DWG NO.
30574-40x01

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN J.M.D.
DSGNR
SUPV
ENGR

JOINER GENERAL ARRANGEMENT
UPPER DECK, 01 LEVEL & 02 LEVEL

APPROVED DATE 7/29/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S33-01-10	F

SCALE ½" = 1'-0" SHEET OF

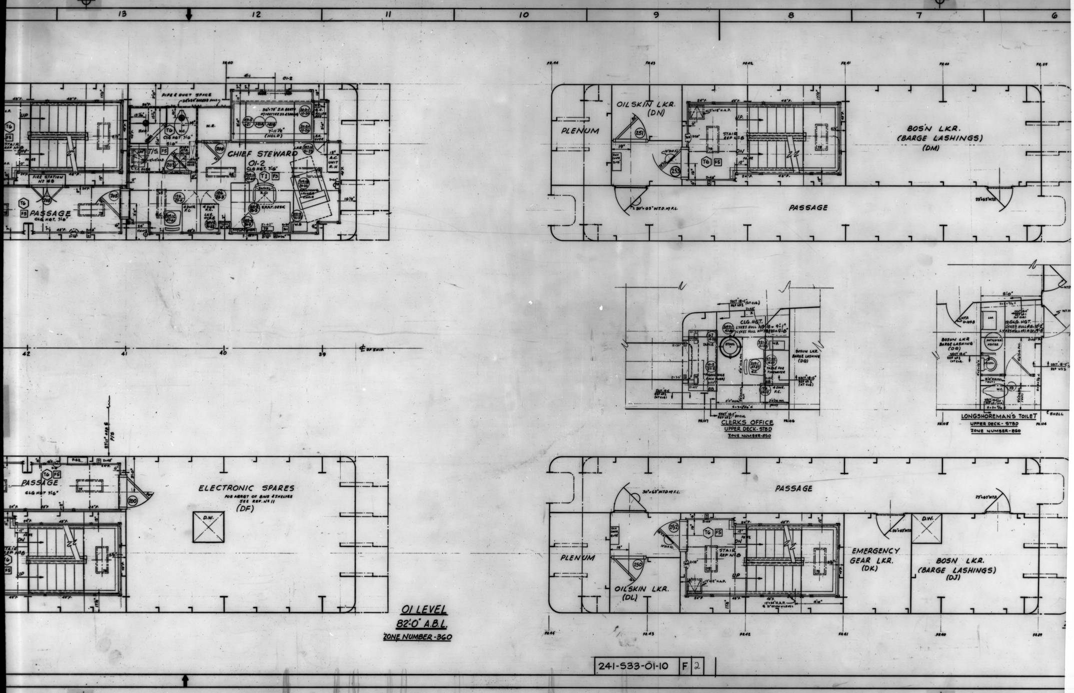
APPROVAL LTR DATED
OWNER APPROVAL LTR DTD. 8/26/70
ABS
USCG DEC. 9, 1970
USPHS FEB. 8, 1971

A.V.M. CORPORATION
JAMESTOWN METAL DIVISION
P.O. BOX I RONKONKOMA, N.Y. 11779
J.M.D. DWG. Nº 9560-JA-5 REV. E

AREA = SQ FT

DWG. NO. 30574-40x01
Q div DWG NO. 30574-40x01
M.A. DWG NO. 241-S33-01-10
12/8/71

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-533-01-10 GD NO. 30574-40x01 FRAME 1 ② 3 4


13
12
11
10
9
8
7
6
PIPE & DUCT SPACE
W.R.
CHIEF STEWARD
01-2
CLG HGT. 7'-6"
T/S
SH.
W.C.
(HOLD)
A.C. UNIT R.H.
FIRE STATION NO. 18
PASSAGE
CLG HGT. 7'-6"
STAIR REF NO. 8
UP
DN
T6
F5
T1
F3
204
205
206
200
OILSKIN LKR. (DN)
PLENUM
BOS'N LKR. (BARGE LASHINGS) (DM)
PASSAGE
251
253
42
41
40
39
℄ OF SHIP
BOSUN LKR. BARGE LASHING (DQ)
BOSUN LKR BARGE LASHING (DQ)
WATER HEATER
SHELL
STOOL
TABLE
ELECTRONIC SPARES
FOR ARRGT OF BINS & SHELVES SEE REF. NO. 11
(DF)
D.W.
PASSAGE
PLENUM
OILSKIN LKR. (DL)
EMERGENCY GEAR LKR. (DK)
BOSN LKR. (BARGE LASHINGS) (DJ)
252
250
FR.44
FR.43
FR.42
FR.41
FR.40
FR.39
FR.107
FR.106
FR.105
FR.104

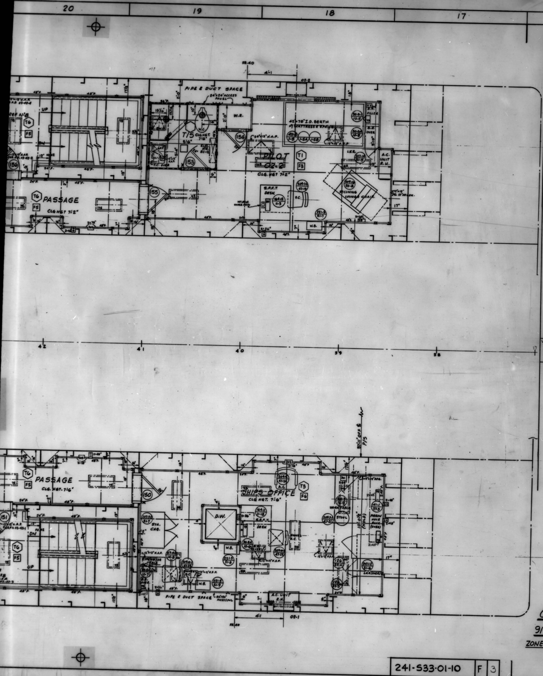
CLERKS OFFICE
UPPER DECK-STBD
ZONE NUMBER-850

LONGSHOREMAN'S TOILET
UPPER DECK-STBD
ZONE NUMBER-850

01 LEVEL
82'-0" A.B.L.
ZONE NUMBER-360

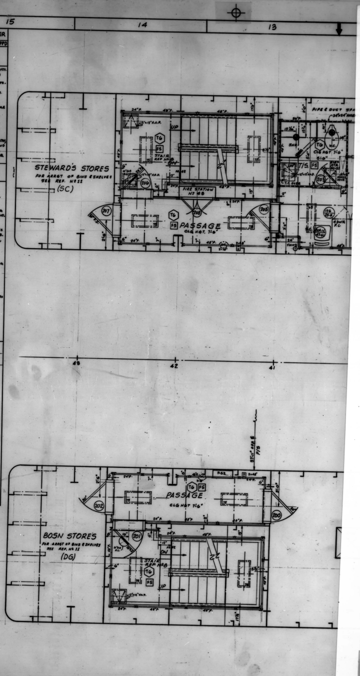
241-533-01-10 | F | 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-533-01-10 GD NO. 30574-40x01 FRAME 1 2 ③ 4



20
19
18
17
PIPE & DUCT SPACE
24"x24" ACCESS PANEL
FR.40
4'-1"
02-2
REF Nº8
UP
DN
T6
F5
156
W.R.
T/S
CLG. HGT. 7'-6"
153
154
42"x76" I.D. BERTH W/ MATTRESS & SPRING
PILOT
02-2
T1
F3
CLG. HGT. 7'-2"
A.C. UNIT R.H.
LKR.
S.P.E.T. DESK
RECLINING LOUNGE CHAIR
W.B.
155
PASSAGE
CLG. HGT. 7'-2"
42
41
40
39
38
PASSAGE
CLG. HGT. 7'-6"
T6
F5
150
151
DN
UP
STA. CAB.
TYPEWRITER TABLE
D.W.
SHIPS OFFICE
CLG. HGT. 7'-6"
T3
F6
A.C.
DESK
STOOL
PIGEON HOLE RACK
A.C. UNIT R.H.
W.B.
PIPE & DUCT SPACE
41
02-1
FR.40

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
18F, 19G, 19F	D (CONT)	8-REVISED LOCATION OF RECEPT'S. OVER DESK IN CHIEF STWD'S SR, PILOT'S SR. & SHIP'S OFFICE FROM 2'-48" TO 2'-36"						
		9- ITEM 6 THRU 8 OF REV D MADE TO SUIT IRM COMMENTS W/ GD/Q LTR FILE 320A/533(11)/SJG/AND/JJM-56986 DTD SEPT. 23, 1971.						
13F		10- INDICATED 3" WDO IN CHIEF STWD'S S.R. FR 40+ PORT TO SUIT GD/Q PLAN Nº 30322-200 REV'D' AND REVISED JOINER LINING TO SUIT.						
9B, 9G.		11-UPPER DK-ADDED 12"x12" H.A.P. IN STAIRWAY CLG. ONE(1) PORT & ONE(1) STBD - 3'-10" FWD FR. 43 & 48'-8" OFF ℄, PORT & STBD.						
14B, 14G		12-01 LEVEL-ADDED 12"x12" H.A.P. IN STAIRWAY CLG. ONE(1) PORT & ONE(1) STBD- 3'-10" FWD FR. 43 & 48'-8" OFF ℄ PORT & STBD.						
14G		13-01 LEVEL-ADDED 12"x12" H.A.P. IN STAIRWAY CLG 3'-10" FWD FR 43 & 43'-4" OFF ℄ PORT.						
		14-ITEMS 11 THRU 13 OF REV. D. MADE TO SUIT AEA#5-0804 LYKES W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-57016 DTD OCT, 7. 1971.						
13G		15-01 LEVEL-ADDED 12"x12" H.A.P. IN CHIEF STWD'S T/S CLG, 4'-4" FWD FR 41 & 44'-6" OFF ℄, PORT.						
17F		16-02 LEVEL-ADDED 12"x12" H.A.P. IN PILOT'S S.R. FWD LINING BHD., 41'-5" OFF ℄ PORT.						
18G		17-02 LEVEL-ADDED 12"x12" H.A.P. IN PILOT'S S.R. CLG., 8" AFT FR 39 & 46'-9" OFF ℄ PORT.						
18G		18-02 LEVEL-ADDED 24"x12" H.A.P. IN PILOT'S S.R. CLG, 16" FWD FR 40 & 45'-5" OFF ℄ PORT.						
19G		19-02 LEVEL-ADDED 12"x12" H.A.P. IN PILOT'S T/S CLG, 12" FWD FR 41 & 47'-4" OFF ℄ PORT.						
18B, 19B		20-02 LEVEL-ADDED 12"x12" H.A.P'S. IN SHIP'S OFFICE CLG, 6" AFT FR 39 & 45'-6" OFF ℄ STBD, 23" FWD FR 40 & 46'-1" OFF ℄ STBD, 3'-8" AFT FR 40 & 48'-3" OFF ℄ STBD & 12" FWD FR 41 & 47'-4" OFF ℄ STBD.						
		21- ITEMS 15 THRU 20 OF REV'D' MADE TO SUIT AEA#5-0811-LYKES W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-57016 DTD OCT, 7. 1971.						
	E	1. PLAN REV. "D" APPROVED BY J.J.H. YD.REP. BY IRM# 5-07-0686 DATED 12/6/71	1/6/72	F.R.				
6D		2. REVISED JOINER CLG. HGT IN LONGSHOREMAN'S TOILET UPPER DK STBD. FROM 7'-6" TO 10'-2" TO SUIT AEA Nº 5-0878- THIS INCORPORATES 5-0878						
8D		3. REVISED JOINER CLG. HGT. IN CLERKS OFFICE UPPER DECK STBD. FROM 9'-8" TO 9'-1" TO SUIT AEA Nº 5-0879 THIS INCORPORATES 5-0879						
8B		4. INDICATED 12"x24" H.A.P. UPPER DK. IN STBD STAIRHALL ON LONG'L JOINER LINING 17½" INBD. OF SHELL, ℄ OF PNL. TO BE 48" AFT FR.41 AND 51" BELOW 01 LEVEL TO SUIT AEA Nº 5-0874. THIS INCORPORATES 5-0874						
6D		5. INDICATED CLG. HGT. IN LONGSHOREMANS TOILET TO BE 9'-8" FOR LYKES HULL Nº'S 19 & 20 & INDICATED 10'-2" CLG. HGT. TO BE FOR LYKES HULL Nº 18.						
8D		6. INDICATED CLG. HGT. IN CLERK'S OFFICE TO BE 9'-1" FOR LYKES HULL Nº 18, & INDICATED 9'-8" CLG. HGT. TO BE FOR LYKES HULL Nº'S 19 & 20.						
12B		7. ADDED REF Nº 11 TO ELECTRONIC SPARES (DF) STBD. 01 LEVEL						
16H		8.-CHANGED DIM. FROM 3'-0" TO 3'-10" IN ITEM 13 OF REV. "D".						
16H		9. CHANGED FR. FROM 40 TO 41 IN ITEM 19 OF REV. "D".						
		10. CHANGED HINGED ACCESS PNLS TO ACCESS OPENINGS IN THE FOLLOWING LOCATIONS:						
13G		a) 01 LEVEL-CHIEF STWD'S T/S CLG. 4'-4" FWD FR 41 & 44'-6" OFF ℄.						
17F		b) 02 LEVEL-PILOT'S S.R. FWD LINING BHD 41'-5" OFF ℄ PORT.						
18G		c) 02 LEVEL-PILOT'S S.R. CLG.-8" AFT FR 39 & 46'-9" OFF ℄ PORT.						
18G		d) 02 LEVEL-PILOT'S S.R. CLG.-16" FWD FR 40 & 45'-5" OFF ℄ PORT.						
19G		e) 02 LEVEL-PILOT'S T/S CLG-12" FWD FR 41 & 47'-4" OFF ℄ PORT.						
18B, 19B		f) 02 LEVEL-SHIPS OFFICE CLG-6" AFT FR 39 & 45'-6" OFF ℄ STBD, 23" FWD FR. 40 & 46'-1" OFF ℄ STBD, 3'-8" AFT FR 40 & 48'-3" OFF ℄ STBD & 12" FWD FR. 41 & 47'-4" OFF ℄ STBD.						
3E		11. ITEM "d" OF AEA# 5-0804 ACCOMPLISED BY ITEM 5 OF REV'D'. THIS INCORPORATES AEA Nº 5-0804						
3E		12. ITEM "f" OF AEA# 5-0811 ACCOMPLISED BY ITEM 5 OF REV'D'. THIS INCORPORATES AEA Nº 5-0811.						
		13. ITEMS 2 THRU 12 OF REV. "E" MADE TO SUIT COMMENTS W/ GD/Q LTR. FILE 320A/533/(11)/SJG/AND/JJM-57073 DTD NOV. 3. 1971. (SMG. NOV 23 1971)						
VARIOUS	F	1. ELECTRICAL SYMBOLS LIST ADDED TO AND INDICATION OF SYMBOLS ON PLAN CORRECTED TO AGREE WITH INSTALLATION ON SHIP. SOURCE: DES. CORRECTION	2/23/72 A.J.V.	F.R.				

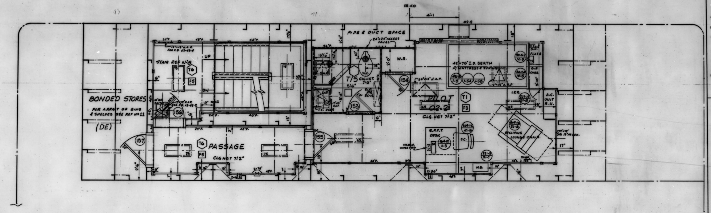


15
14
13
STEWARD'S STORES
FOR ARRGT OF BINS & SHELVES SEE REF. Nº 11
(SC)
PIPE & DUCT SPACE
T6
F5
STAIR REF Nº8
FIRE STATION Nº 48
207
206
205
PASSAGE
CLG. HGT. 7'-6"
T/S
CLG HGT 7'-6"
203
43
42
41
PASSAGE
CLG HGT 7'-6"
202
200
201
BOSN STORES
FOR ARRGT OF BINS & SHELVES SEE REF. Nº 11
(DG)
STAIR REF Nº8
DN
UP
T6
F5

02 LEVEL
91'-0" A.B.L.
ZONE NUMBER-360

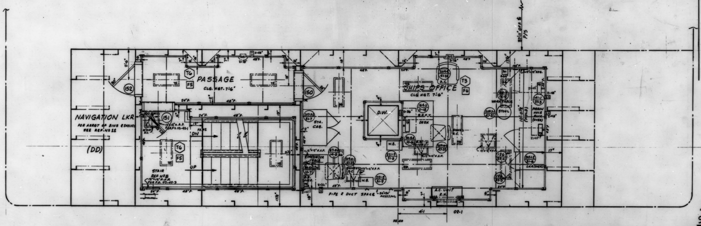
241-533-01-10	F	3

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
12F, 19G, 19F	D (CONT)	8-REVISED LOCATION OF RECEPT'S. OVER DESK IN CHIEF STWD'S SR, PILOT'S SR. & SHIP'S OFFICE FROM 2-48" TO 2-36"						
		9-ITEM 6 THRU 8 OF REV D MADE TO SUIT IRM COMMENTS W/ GD/Q LTR FILE 320A/533(11)/SJG/AND/JJM-56986 DTD SEPT.23,1971.						
13F		10-INDICATED 3" WDO IN CHIEF STWD'S SR. FR 40+ PORT TO SUIT GD/Q PLAN Nº 30322-200 REV'D" AND REVISED JOINER LINING TO SUIT.						
9B, 9G.		11-UPPER DK-ADDED 12"x12" H.A.P. IN STAIRWAY CLG. ONE (1) PORT & ONE (1) STBD - 3'-10" FWD FR. 43 & 48'-8" OFF ℄, PORT & STBD.						
14B, 14G		12-01 LEVEL-ADDED 12"x12" H.A.P. IN STAIRWAY CLG. ONE (1) PORT & ONE (1) STBD - 3'-10" FWD FR. 43 & 48'-8" OFF ℄ PORT & STBD.						
14G.		13-01 LEVEL-ADDED 12"x12" H.A.P. IN STAIRWAY CLG 3'-10" FWD FR 43 & 43'-4" OFF ℄ PORT.						
		14-ITEMS 11 THRU 13 OF REV. D. MADE TO SUIT AEA#S-0804 LYKES W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-57016 DTD OCT, 7. 1971.						
13G		15-01 LEVEL-ADDED 12"x12" H.A.P. IN CHIEF STWD'S T/S CLG, 4'-4" FWD FR 41 & 44'-6" OFF ℄, PORT.						
17F		16-02 LEVEL-ADDED 12"x12" H.A.P. IN PILOT'S S.R. FWD LINING BHD., 41'-5" OFF ℄ PORT.						
18G		17-02 LEVEL-ADDED 12"x12" H.A.P. IN PILOT'S SR. CLG., 8" AFT FR 39 & 46'-9" OFF ℄ PORT.						
18G		18-02 LEVEL-ADDED 24"x12" H.A.P. IN PILOT'S S.R. CLG, 16" FWD FR 40 & 45'-5" OFF ℄ PORT.						
19G		19-02 LEVEL-ADDED 12"x12" H.A.P. IN PILOT'S T/S CLG, 12" FWD FR 41 & 47'-4" OFF ℄ PORT.						
18B, 19B		20-02 LEVEL-ADDED 12"x12" H.A.P'S. IN SHIP'S OFFICE CLG, 6" AFT FR 39 & 45'-6" OFF ℄ STBD, 23" FWD FR 40 & 46'-1" OFF ℄ STBD, 3'-8" AFT FR 40 & 48'-3" OFF ℄ STBD & 12" FWD FR 41 & 47'-4" OFF ℄ STBD.						
		21-ITEMS 15 THRU 20 OF REV'D" MADE TO SUIT AEA#S-0811-LYKES W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-57016 DTD OCT, 7 1971.						
	E	1. PLAN REV. "D" APPROVED BY J.J.H. YD.REP. BY IRM# S-07-0686 DATED 12/6/71	1/6/72	FRM				
6D		2. REVISED JOINER CLG. HGT IN LONGSHOREMAN'S TOILET UPPER DK STBD. FROM 7'-6" TO 10'-2" TO SUIT AEA Nº S-0878. THIS INCORPORATES S-0878						
8D		3. REVISED JOINER CLG. HGT. IN CLERKS OFFICE UPPER DECK STBD. FROM 9'-8" TO 9'-1" TO SUIT AEA Nº S-0879 THIS INCORPORATES S-0879						
8B		4. INDICATED 12"x24" H.A.P. UPPER DK. IN STBD STAIRHALL ON LONG'L JOINER LINING 17½" INBD. OF SHELL, ℄ OF PNL. TO BE 48" AFT FR. 41 AND 51" BELOW 01 LEVEL TO SUIT AEA Nº S-0874. THIS INCORPORATES S-0874						
6D		5. INDICATED CLG. HGT. IN LONGSHOREMANS TOILET TO BE 9'-8" FOR LYKES HULL Nº'S 19 & 20 & INDICATED 10'-2" CLG. HGT. TO BE FOR LYKES HULL Nº 18.						
8D		6. INDICATED CLG. HGT. IN CLERK'S OFFICE TO BE 9'-1" FOR LYKES HULL Nº 18, & INDICATED 9'-8" CLG. HGT. TO BE FOR LYKES HULL Nºs 19 & 20.						
12B		7. ADDED REF Nº 11 TO ELECTRONIC SPARES (DF) STBD. 01 LEVEL						
16H		8. CHANGED DIM. FROM 3'-0" TO 3'-10" IN ITEM 13 OF REV. "D".						
16H		9. CHANGED FR. FROM 40 TO 41 IN ITEM 19 OF REV. "D".						
		10. CHANGED HINGED ACCESS PNLS TO ACCESS OPENINGS IN THE FOLLOWING LOCATIONS:						
13G		a) 01 LEVEL - CHIEF STWD'S T/S CLG. 4'-4" FWD FR 41 & 44'-6" OFF ℄.						
17F		b) 02 LEVEL - PILOT'S S.R. FWD LINING BHD 41'-5" OFF ℄ PORT.						
18G		c) 02 LEVEL - PILOT'S S.R. CLG - 8" AFT FR 39 & 46'-9" OFF ℄ PORT.						
18G		d) 02 LEVEL - PILOT'S S.R. CLG - 16" FWD FR 40 & 45'-5" OFF ℄ PORT.						
19G		e) 02 LEVEL - PILOT'S T/S CLG - 12" FWD FR 41 & 47'-4" OFF ℄ PORT.						
18B, 19B		f) 02 LEVEL - SHIPS OFFICE CLG - 6" AFT FR 39 & 45'-6" OFF ℄ STBD, 23" FWD FR. 40 & 46'-1" OFF ℄ STBD, 3'-8" AFT FR 40 & 48'-3" OFF ℄ STBD & 12" FWD FR. 41 & 47'-4" OFF ℄ STBD.						
3E		11. ITEM "A" OF AEA# S-0804 ACCOMPLISHED BY ITEM 8 OF REV "D". THIS INCORPORATES AEA Nº S-0804						
3E		12. ITEM "5" OF AEA# S-0811 ACCOMPLISHED BY ITEM 5 OF REV "D". THIS INCORPORATES AEA Nº S-0811.						
		13. ITEMS 2 THRU 12 OF REV. "E" MADE TO SUIT COMMENTS W/ GD/Q LTR. FILE 320A/533/(11)/SJG/AND/JJM-57073 DTD NOV. 3. 1971. (SMG. NOV 23 1971)						
VARIOUS	F	1. ELECTRICAL SYMBOLS LIST ADDED TO AND INDICATION OF SYMBOLS ON PLAN CORRECTED TO AGREE WITH INSTALLATION ON SHIP. SOURCE: DES. CORRECTION	2/16/72 A.J.V.	FRM				



FR.40
4'-1"
02-2
PIPE & DUCT SPACE
24"x24" ACCESS PANEL
STAIR REF Nº 8
UP
DN
T6
F5
BONDED STORES
FOR ARR'GT OF BINS & SHELVES SEE REF Nº 11
(DE)
156
157
155
154
153
T/S
CLG. HGT 7'-6"
W.R.
42"x78" I.D. BERTH W/ MATTRESS & SPRING
PILOT
02-2
CLG. HGT. 7'-2"
T1
F3
S.P.F.T. DESK
RECLINING LOUNGE CHAIR
A.C. UNIT R.H.
LKR.
FILLER
PASSAGE
CLG. HGT 7'-2"
W.B.

44 43 42 41 40 39 38



PASSAGE
CLG. HGT. 7'-6"
T6
F5
152
150
151
NAVIGATION LKR.
FOR ARR'GT OF BINS & SHELVES SEE REF Nº 11
(DD)
STAIR REF Nº 8
DN
UP
STA. CAB.
SHIPS OFFICE
CLG. HGT. 7'-6"
T3
F6
D.W.
DESK
W.B.
WORK TABLE
STOOL
PIGEON HOLE RACE
PIPE & DUCT SPACE
A.C. UNIT R.H.
TYPEWRITER DESK
FR.40
4'-1"
02-1

02 LEVEL

91'-0" A.B.L.

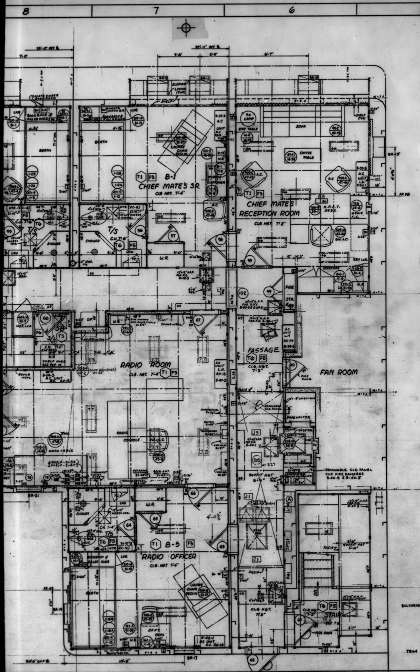
ZONE NUMBER-360

241-533-01-10	F	3

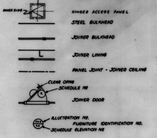
GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-533-01-10 GD NO. 30574-40x01 FRAME 1 2 3 ④

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-533-01-11 GD NO. 30574-50x01 FRAME ① 2 3 4



JOINER SYMBOLS



HINGED ACCESS PANEL
STEEL BULKHEAD
JOINER BULKHEAD
JOINER LINING
PANEL JOINT - JOINER CEILING
JOINER DOOR
FURNITURE IDENTIFICATION NO.

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION	VENDOR DWG NO
29		
65	CEILING FIXT., FLUOR, TYPE 1, (2) 20W, RECESSED, N.W.T.	SIMES 45539
66	CEILING FIXT., FLUOR, TYPE 1, (3) 20W, RECESSED, N.W.T.	SIMES 46906-320
69	CORNICE LIGHT, FLUOR, TYPE 13, 40W, SURFACE MTD N.W.T.	SIMES 46377
75	CEILING FIXT., FLUOR, TYPE 15, (3) 20W, RECESSED N.W.T.	SIMES 47889
77	CEILING FIXT., FLUOR, TYPE 15, (2) 20W, RECESSED N.W.T.	SIMES 46902
79	DESK LIGHT, FLUOR, TYPE 19, (2) 8W, BHD. MTD, N.W.T.	SIMES 45558-2
80	DESK LIGHT, FLUOR, TYPE 19, (2) 8W, DESK MTD, N.W.T.	SIMES 48358 (R)
92	DOWN LIGHT, INCAND, TYPE 38, 100W, RECESSED N.W.T.	SIMES 45317
95	BERTH/LOUNGE LIGHT INCAND 30W	SIMES 47413
96	CEILING FIXT., FLUOR, TYPE 35, (4) 20W, RECESSED, N.W.T.,	SIMES 46377
301	DIAL TELEPHONE SET (BHD MTD)	HOSE McCANN 247-01
302	SECONDARY CLOCK 6" DIAL SEMI FLUSH MTD TYPE 75	SIMPLEX 1653-086
305	GENERAL ALARM BELL (8")	HENSCHEL - 20-163
306	RADIO/POWER OUTLET BOX ASSEMBLY	COMM RADIO A-28791
	RECEPTACLE	
308	DIAL TELEPHONE SET, BHD MTD.	HOSE McCANN 247-01
DS	DISCONNECT SWITCH.	
310	DUMBWAITER INTERCOMM. SURFACE MTD.	HOSE McCANN 339-03
CS	CONT. STATION FOR DUMBWAITER.	ENERG ELEV 89556-7-BC
152	16" FAN	
307	BELL, 12V, TYPE MR-148-19	MACKAY S-121-27-2A
327	ENCLOSURE FOR BELL, FLUSH MTD	

RESERVATIONS

~~1. CEILING LAYOUT AND HEIGHTS PENDING RECEIPT OF VENTILATION, ELECTRICAL, & PIPING PLANS.~~
~~2. EQUIPMENT IN RADIO & GYRO ROOMS.~~
~~3. BOSUNS LKR. & MAST HOUSE.~~
~~4. LOCATION OF ACCESS PANELS, THERMOSTATS, DIFFUSERS PENDING RECEIPT OF VENTILATION, MECHANICAL & PIPING PLANS.~~

FINISH SYMBOLS

BULKHEADS	T1	PLASTIC - GREEN MISTLETOE, MICARTA #91-M-07
	T2	PLASTIC - CEYLON TEAK, MICARTA #96-M-23
	T3	PLASTIC - AZTEC TAN, MICARTA # 90-M-70
	T6	PLASTIC - GREY CATHAY, MICARTA #81-M-04
TRIM	F3	PAINT - R-195, RENAISSANCE GREEN; DUPONT #IMG-266
	F4	PAINT - L-72, AUBURN; DUPONT # IMN-199
	F5	PAINT - R-170, GREY LEEK; DUPONT # IMN-187
	F6	PAINT - L-106, ALMOND; DUPONT # IMN-196

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1. PLAN REV "O" APPROVED BY J.J.H. LTR. FILE "5589/533/AHS-396-70 DTD AUG 26 1970.						
8E		2. CORRECTED C.O. FOR JOINER DOORS 68 & 69 FROM 26" TO 30".						
7D		3. INDICATED SOUND INSULATION IN DBL BHDS IN RADIO RM.						
3B		4. ADDED REF NOS 10, 11 & 12.						
9D		5 INDICATED REF NO FOR SHELVING IN LINEN LKR, SERVICE LKR & SPARE PARTS LKR.						
3D		6 ADDED GEN. NOTE NO 5.						
		7. ITEMS 2-6 OF REV "A" MADE TO SUIT J.J. HENRY LTR FILE 5589/533/AHS-396-70 DTD AUG 26 1970.						
1B		8. REVISED Q div DWG NO.						
1A		9. ADDED M.A. DWG NO.						
14E, 6E, 12C, 13A, & 11G		10. RELOCATED A.C. UNITS IN PORT & STBD PASSAGE, PASS SR. B-6, PASS S.R. B-8 AND MASTER'S LOUNGE. HAND OF A.C. UNIT IN MASTERS LOUNGE REVISED FROM RIGHT TO LEFT.						
		REV. A CONT. IN COLUMN 3						
9-14 F-9-14	A (CONT)	11. ADDED HANDS TO ALL A.C. UNITS						
		12. ADDED ELECTRICAL SYMBOL LIST & ADDED ELECTRICAL FIXTURES.						
5B		13. RELEASED RES NO 1.						
10E		14. INDICATED FIXED LIGHT ON J.D. #77						
7B, 7C, 12B		15. REVISED LOCATION OF WINDOWS IN RADIO OFFICERS S.R., RADIO RM. & PASS SR. B-6						
		16. ITEMS 8-15 OF REV "A" MADE TO SUIT QSD LTR. FILE 820A/533/(11)/AND/RMS-55992 DTD SEPT. 1, 1970, AND MARKED UP PRINTS FROM QSD.						
10F		17. REVISED CEILING HGT IN MASTER'S OFFICE FROM 7'-6" TO 7'-8" TO SUIT QSD LTR. FILE 820A/533/(11)/AND/RMS-56039 DTD SEPT 14 1970.						
5-14		18. ADDED WINDOW CASING NOS TO SUIT REF. NO 5						
14E, 6E, 12C, 13A, 11G.		19. REVISED DEPTH OF LINING IN WAY OF WINDOW CASING NOS BR-16, BR-18, BR-19, BR-20, BR-21 & BR-22 TO SUIT INCREASED DEPTH OF CURTAIN POCKETS. REF NO 5						
	B	1 - PLAN REV "A" APPROVED BY JJH LTR. FILE: 5589/533/JUM-574-70 DTD DEC, 28, 1970						
8A-H to 14A-H		2. REVISED PLAN TO SUIT MARKED UP PRINT & JJH LTR FILE 5589/533/JUM-574-70 DTD. DEC, 28, 1970						
8A-H to 14A-H		3. REVISED DWG TO SUIT MARKED PRINT WITH QSD LTR FILE 820A/533/(11)/JHN/AND/RMS-56288 DTD. NOV., 13, 1970.						
10AC		4. REVISED MAIN MAST TO SUIT QSD DWG NO 30325 x 120 & RELEASED RES NO 3 TO SUIT.						
5AH-14AH		5. REVISED STL BHDS TO SUIT QSD DWG NO 30431-02 x 08 REV "A".						
5AH-14AH		6 - REVISED FURNITURE ELEV. & ILLUSTRATION NOS TO SUIT REV "B" OF REF NO 4.						
6F		7 - REVISED DESK IN CHIEF MATES RECEP. RM TO SUIT JJH SKETCH 5589-533-120970 AND LTR: FILE 5589/533/JUM-555-70.						
8E		8 - REVISED JOINER BULKHEAD AROUND MED. LKR. FR 59 APPROX 21'-0" OFF ℄ TO STBD TO SUIT DEVELOPMENT.						
10CB		9 - RELOCATED STBD ENCLOSURE OF THE MASTER GYRO & TRANSMITTER RM. BETWEEN FRS 39 & 41, 2" INBOARD TO SUIT QSD LTR, FILE 820A/533(11)/JHN AND/RMS-56380 - DTD JAN, 5, 1971.						
11FG		10 - REVISED FOLDING DOOR JAMB 897 BETWEEN MASTERS OFFICE & LOUNGE TO SUIT REV "D" OF REF NO 2.						
10H		11 - RELOCATED DIAL TEL. SET SYM. #308 IN MASTER'S OFFICE FROM LOCATION SHOWN ON MARKED UP PRINT W/ QSD LTR. FILE 820A/533/(11)/536/AND/RMS-56516 DTD FEB 18 1971.						
4B		12 - ADDED FINISH SYMBOL LIST AND INDICATED FINISH SYMBOLS IN COMPARTMENTS, TO SUIT DEVELOPMENT						
2A		13 - ADDED USPHS & USCG APPROVALS.						
1A		14 - ADDED ZONE NUMBER TO TITLE BLOCK.						
10E, 12F		15 - INDICATED MURALS IN MASTER'S OFFICE & LOUNGE AND ADDED ELEVATIONS NOS "17A" & "17C" TO SUIT DEVELOPMENT						
		REV "B" CONTINUED IN PANEL 17						

REVISIONS	O	A	B	C	E	F	G	H	J	K	
TO					1 6 2	2 29 2	3 17 72	4 11 72	9 1 72	10 11 72	
LYKES N.O.					1	1	1	1	1	1	
M.A.(WASH)					1	1	1	1	1	1	
M.A.(YARD)					1	1	1	1	1	1	
J.J.HENRY(YARD)					1	1	1	1	1	1	
J.J.HENRY(HOME)					2	2	2	2	2	2	
ABS 1/0					1	1	1	1	1	1	
USCG 1/0					1	1	1	1	1	1	
USPHS											
871					4	4	4	4	3	3	
872											
873											
874											
875											
876											
LIA BLK/108					1	1	1	1	1	1	
866					1	1	1	1	1	1	
TOTAL NRO'S FS											
TOTAL NRO'S HS					14	14	14	14	13	13	
TOTAL RO											

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
	E	1/10/2	800		2
	F	2/1/2	820		5
	G	3-17-2	826		12
	H	4-11-2	829		[illegible]
	J	9-5-2	830		7
	K	10-12-2	841		1
			842		
			843		
			844		5
			899		
			LIBRARY		3
			828		1
					1
			TOTAL		38

GENERAL NOTES

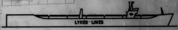
1. JOINER CEILINGS IN ALL ROOMS SHALL BE SET LEVEL WITH BRIDGE DECK.
2. PULLMAN SHADES SHALL BE PROVIDED IN ALL WINDOW CASINGS.
3. FLAT BAR COAMINGS SHALL BE PROVIDED UNDER PERIPHERY BULKHEADS & LININGS OF TOILET & SHOWERS.
4. BRIDGE DECK HAS NO CAMBER OR SHEER. NAV. BRIDGE HAS 6" CAMBER, NO SHEER.
5. FOR VALANCE AND DRAPES IN WAY OF HOUSE FRONT WINDOWS SEE REF NOS 5 & 12.

MATERIAL SECTION SIGNATURE AREA							
O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
K 12-27-72

SEABEE



NO.	TITLE	J.M.D. DWG NO	Q div DWG NO.	M.A. DWG NO.
13	ARR. STRMS, LKRS, SPARES ABV UPPER DK.		30211-58 x 08	241-530-01-12
12	CURTAINS - SCHED & DETAILS	9560-LR-1	30571-25 x 01	241-533-6-3
11	PASSAGE STORM RAILS & RAILS IN WHEEL HOUSE & CHART RM.	9560-HR-1	30532-08 x 01	241-516-4-26
10	STOREROOM DETAILS	9560-SD-1	30573-10 x 01	241-530-01-13
9	NAV. BRIDGE DK PLTG & FRAMING		30431-02 x 05	241-511-18-40
8	MISC. BHDS. - BRIDGE DECK		30431-02 x 08	241-511-05-02
7	DK. HOUSE FRONT & ENDS UPPER		30431-02 x 02	241-511-07-02
6	STAIRS "LAYOUT & DETAILS	9560-S-1	30537-15 x 01	241-533-6-3
5	WINDOW CASINGS SCHEDULE & DETAILS	AW-1	30546-10 x 01	241-512-03-02
4	LIST OF FURNITURE	FE-1	30571-20-02	241-533-06-04
3	FURNITURE & EQUIP. ILLUST.	FI-1	30571-20-01	241-533-6-2
2	SCHEDULE JOINER DOORS, ELEV & DETAILS	JDA-1	30574-15-03	241-516-3-1
1	TYPICAL JOINER DETAILS	JD-1	30574-15-01	241-533-1-4

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30574-50x01

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN J.M.D.
DSGNR
SUPV
ENGR

JOINER GENERAL ARRANGEMENT
BRIDGE DECK
ZONE NUMBER - 370

APPROVED DATE 7/24/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-533-01-11	K

SCALE ½" = 1'-0" SHEET OF

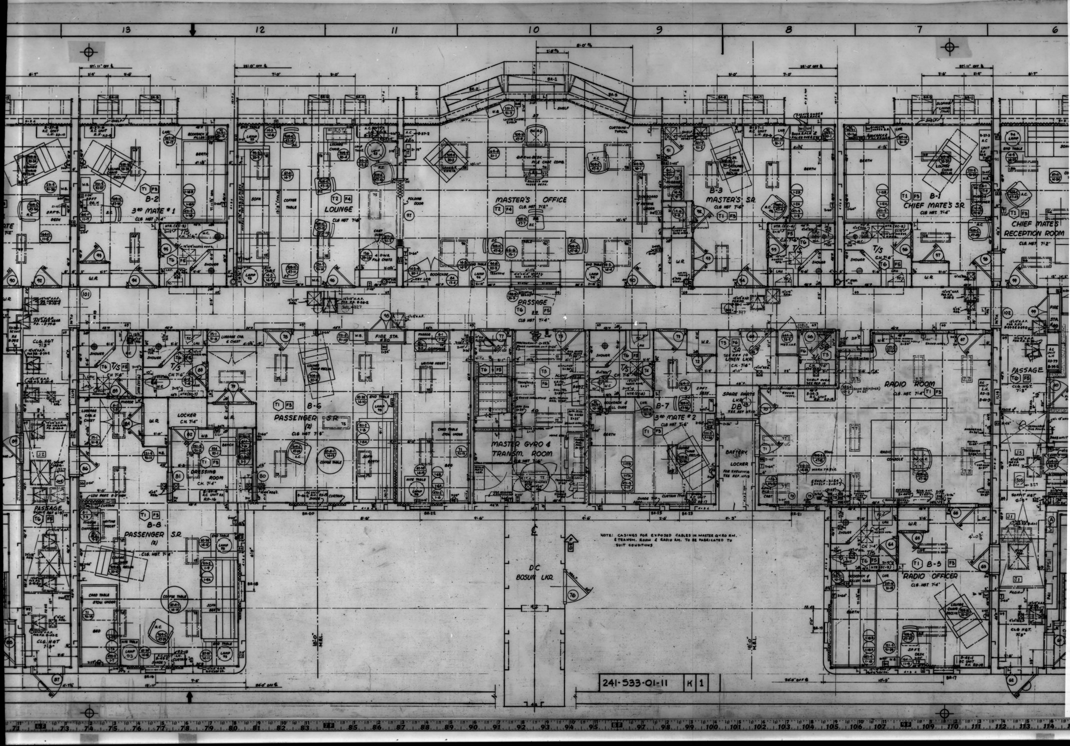
APPROVAL LTR DATED
ABS
USCG Dec. 9, 1971
USPHS Feb. 8, 1971

A.U.M. CORPORATION
JAMESTOWN METAL DIVISION
P.O. BOX I RONKONKOMA, N.Y. 11779
J.M.D. DWG. NO 9560-JA-6 REV. E

AREA SQ FT

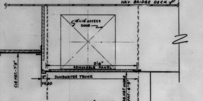
DWG. NO. 30574-50x01
M.A. DWG NO. 241-533-01-11
Q div DWG NO. 30574-50x01

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-533-01-11 GD NO. 30574-50×01 FRAME 1 ② 3 4

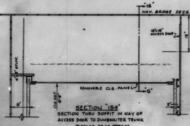

13
12
11
10
9
8
7
6
B-2
3RD MATE #1
CLG HGT 7'-4"
LOUNGE
CLG HGT 7'-6"
MASTER'S OFFICE
CLG HGT 7'-2"
B-3
MASTER'S SR.
CLG HGT 7'-6"
B-1
CHIEF MATE'S SR.
CLG HGT 7'-4"
CHIEF MATE'S RECEPTION ROOM
CLG. HGT 7'-2"
PASSAGE
CLG HGT 7'-4"
B-6
PASSENGER S.R.
(2)
CLG HGT 7'-6"
LOCKER
DRESSING ROOM
MASTER GYRO & TRANSM. ROOM
B-7
3RD MATE #2
SA
LINEN LKR
SPARE PARTS LKR
DB
BATTERY LOCKER
RADIO ROOM
CLG. HGT 7'-4"
FIRE STA.
B-8
PASSENGER S.R.
(2)
CLG. HGT 7'-4"
D.C
BOSUN LKR.
B-5
RADIO OFFICER
CLG. HGT 7'-4"
NOTE: CASINGS FOR EXPOSED CABLES IN MASTER GYRO RM. & TRANSM. ROOM & RADIO RM. TO BE FABRICATED TO SUIT CONDITIONS.
241-533-01-11
K
1

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
13E	E (CONT)	i) ITEM "k" OF AEA# S-0812 BY ITEM 10 & 11 OF REV "D".	1/6/72					
13A		j) ITEM "l" OF AEA # S-0812 BY ITEM 9 & 11 OF REV. "D". (REVISED HGT OF ACCESS PNL. OFF DECK FROM 30" TO 4'-6")						
13D		k) ITEM "m" OF AEA#S-0812 BY ITEM 10 & 11 OF REV "D".						
14F		l) ITEM "n" OF AEA # S-0812 BY ITEM 10 & 11 OF REV "D". THIS INCORPORATES AEA # S-0812						
		6- ITEMS 3 THRU 5 OF REV "E" MADE TO SUIT COMMENTS W/ GD/Q LTR. FILE 320A/533/(11)/SJG/AND/JJM-57073 DTD NOV. 5 1971. (SMG - NOV 24 1971)						
ALL		7- ITEMS (a) THRU (r) OF AEA # S-0935 WERE ACCOMPLISED BY ITEM 8 OF REV "D". THIS INCORPORATES AEA # S-0935. (SMG. - NOV 30 1971)						
6E		8- RELOCATED KEY LKR IN CHIEF MATE'S RECEPTION RM FROM AFT BHD TO OUTBD. BHD. TO SUIT GD/Q SKETCH DATED 11/21/71. (SMG - DEC. 1.1971)						
14E		9- ENCLOSED TWO POTABLE WATER PIPES IN 2ND MATES WARDROBE TO SUIT IRM FROM J.STEVENS/W. PRAY DATED NOV 29 1971. (SMG DEC.10.1971)						
VARIOUS	F	1- ELECTRICAL SYMBOLS LIST ADDED TO AND INDICATION OF SYMBOLS ON PLAN CORRECTED TO AGREE WITH INSTALLATION ON SHIP. SOURCE: DES. CORRECTION.	2/29/72 A.J.V.					
11	G	1- IN MASTER'S LOUNGE COMPT NO B-37-2, ADDED 12"x12" A.P. TO SUIT ELECT. EQUIP. ℄ OF PANEL 6'-10" FWD OF FR 38 & 16'-3" OFF ℄ OF SHIP. SOURCE: ITEM #1 INCORP. AEA NO. S-1137 LYKES	3/17/72 A.J.V.					
10	H	1.- IN MASTER'S OFFICE COMPT NO. B-37-0 CEILING HGT CHG'D FROM 7'-3" TO 7'-2" SOURCE: DES. CORRECTION (876 DEPT. IRM DTD. 4-6-72).	4/10/72 T.Z.					
6B,6C	J	1. DELETED 12"x12" H.A.P. ABT 2'-6" AFT FR 42 & ABT 40'-0" OFF ℄(S) & ADDED ONE (1) 12"x12" H.A.P. 24" AFT FR. 41 & ABT 39'-3" OFF ℄ (S).	7/1/72 FF					
14C		2. DELETED 12"x12" HAP. ABT 3'-3" AFT FR 40 & ABT 41'-0" OFF ℄(P) & ADDED ONE (1) 12"x12" H.A.P. ABT 15" FWD FR 41 & ABT 39'-8" OFF ℄ (P)						
6D		3. CHANGED SIZE OF EXISTING H.A.P. 4'-3" AFT FR 41 & 41'-4" OFF ℄(S) FROM 12"x12" TO 12"x18" SOURCE: ITEM 1 & 2 INCORP AEA-S-1390. ITEM 3 INCORP AEA-S-1394.						
7,8	K	1. RADIO ROOM, COMPT B-39-9 FRS 39-41 (S), LOC OF LIGHT FIXTURES AND BOOK RACK 10-2 REVISED TO SUIT SHIP AND MRL DATED 10/11/72 FROM DEPT 876. SOURCE: DES CORRECTION	10/11/72 A.J.V.					

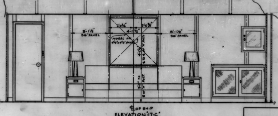
ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
6D, 15E, 15G.	B (CONT)	16. ADDED SOFFIT IN PASSAGE, STBD SIDE, FR 40 IN WAY OF ACCESS DOOR TO DUMBWAITER TRUNK. ADDED SECTIONS "15E" & "15-G"						
4H.		17. ADDED SYMBOL FOR HINGED ACCESS PNL. IN JOINER SYMBOL LIST.						
FAN-MAH		18. REVISED ELECTRICAL TO SUIT MARKED UP PRINT W/ QSD LTR FILE 320A/533/(11)/SJG/AND/RMS-56516 DTD FEB 18 1971 & QSD DWG NO 30324-612. RELEASED RES NO 2 TO SUIT.						
4B.		19. ADDED RESERVATION NO 4.						
16B, 16D		20. DELETED SECTIONS THRU MASTER'S OFFICE & THRU HOUSE FRONT.						
7E		21. REVISED JOINER BHDS IN WAY OF DRINKING FOUNTAIN TO SUIT IRM W/ QSD LTR, FILE: 320A/533/516/(11)/(20)/SJG/AND/RMS-56678 DTD APRIL, 16, 1971.	4/30/71				5/7/71	
	C	1. PLAN REV "B" APPROVED BY JJH FIELD REP. & MARKED PRINT W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56822 DTD JUNE 18 1971.	7/14/71 A.J.V.				16 JUL 1971	
6C		2. INDICATED CUTOUT IN STL. BHD. BETWEEN FRS 40 & 41 - 45'-0¾" OFF ℄ FOR DUMBWAITER INTERCOM TO SUIT GD/Q PLAN NO 30431-02-B REV "C" & GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56758 DTD MAY 17 1971.						
6ABC, 14ABC		3. INDICATED SOFFIT IN PORT & STBD STAIRHALLS FR 41-42+ TO SUIT IRM W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56692 DTD APRIL 21 1971.						
8D		4. REVISED LINING DEPTH OF AFT BHD IN SPARE PARTS LKR FROM 4" TO 2"						
7D, 8D		5. REVISED HANDS OF AC UNITS IN RADIO ROOM.						
		6. ITEM 4 & 5 OF REV "C" MADE TO SUIT MARKED UP PRINT W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56725 DTD MAY 5 1971.						
14E		7. REVISED LINING IN WAY OF AC UNIT ON OUTBOARD BHD, PORT PASSAGE FR 39 TO SUIT MARKED UP PRINT W/ GD/Q LTR 320A/533/(11)/SJG/AND/JJM-56769 DTD MAY, 17, 1971.						
6BD, 14B-D		8. INDICATED SOFFITS IN PORT & STBD PASSAGES TO SUIT IRM W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56780 DTD MAY 27 1971.						
10CD		9. INDICATED BBL BHD IN MASTER GYRO ROOM IN WAY OF UPSTAIR FR 39-40 PORT TO SUIT DEVELOPMENT.						
	D	1- PLAN REV "C" APPROVED BY J.J.H. FIELD REP. JULY 16. 1971.						
		2- ADDED MICROFILM MARKS TO SUIT GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56855 DTD 7/8/71						
10H		3- RELOCATED PHONE IN MASTER'S OFFICE FROM PORT OUTBD BHD TO FWD. BHD. UNDER SHELF.						
8G		4- RELOCATED PHONES IN MASTER'S S.R. FROM OUTBD. STBD. BHD. TO. FWD. BHD. UNDER BOOKRACK.						
7G		5- RELOCATED PHONE IN CHIEF MATES S.R. FROM INBD BHD TO OUTBD BHD. UNDER BOOKRACK.						
		6- ITEMS 3 THRU 5 OF REV "D" MADE TO SUIT IRM FROM E.STURNER/J.D. KELLY/G. BURKHARDT DTD 7-28-71						
14B		7- RELOCATED FACIA STBD. FORE AND AFT PASSAGE FROM 18" FWD FR 42 TO 15" FWD FR 42 TO SUIT ACCESS PNL.						
ALL		8- ADDED REGISTERS, THERMOSTATS & INDICATED HINGED ACCESS PNLS TO SUIT GD/Q PLAN NO 30324-230 REV "D".						
ALL		9- ADDED HINGED ACCESS PNLS IN THE FOLLOWING LOCATIONS: a) PASS FR 39+ APPROX 11'-6" OFF ℄ PORT, b) AFT LINING BHD IN PASSENGER SR. B-8 APPROX 10'-3" OFF 18'-0" M.B.L. PORT, c) AFT LINING BHD IN RADIO OFFICER'S SR. APPROX. 10'-3" OFF 18'-0" MBL.						
ALL		10- ADDED 12"x12" ACCESS OPNG'S IN THE FOLLOWING LOCATIONS: a) 3RD MATE #1 T/S, b) 2ND MATE T/S, c) PASS. SR. B-6 T/S, d) PASS. S.R. B-8 T/S, e) 3RD MATE #2 T/S, f) SERVICE LKR. (58), g) RADIO OFFICER T/S, h) MASTER T/S, & i) CHIEF MATES T/S.						
		11- ITEMS 9 & 10 OF REV "D" MADE TO SUIT GD/Q PLAN NO 30324-200 REV "D".						
		12- RELEASED RESERVATION NO 4.						
9G		13- ADDED TWO (2) 12"x12" H.A.P.'S IN MASTER'S SR. CLG 15" AFT FR 37 & 11'-2" OFF ℄ & 13'-8" OFF ℄ STBD.						
11G		14- ADDED 12"x12" H.A.P. IN MASTER'S LOUNGE CLG. 15" AFT FR 37 & 13'-1" OFF ℄ PORT						
		15- ITEMS 13 & 14 OF REV "D" MADE TO SUIT AEA# S-0812 LYKES W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-57016 DTD OCT. 7 1971.						
		REVISION "D" CONTINUED IN PANEL "15-C"						



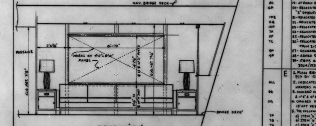
SECTION "15-G"
SCALE: 1½" = 1'-0"



SECTION "15-E"
SECTION THRU SOFFIT IN WAY OF ACCESS DOOR TO DUMBWAITER TRUNK
PASSAGE, FR. 40, STBD SIDE.
SCALE 1½" = 1'-0"

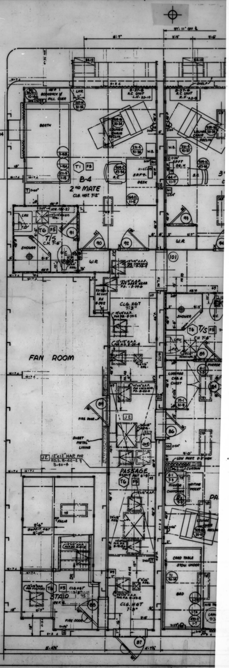


ELEVATION "17-C"
ELEVATION OF AFT BULKHEAD IN MASTER'S OFFICE - LKG AFT.
SCALE: ⅛" = 1'-0"



ELEVATION "17-A"
ELEVATION OF OUTBOARD BHD IN LOUNGE LKG TO PORT
SCALE: ⅛" = 1'-0"

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
6A, 6B, 6E, 11E, 13, 14A	D (CONT)	16- RELOCATED RECEPT'S IN PASSAGES & STAIR HALLS (6) FROM 2=36" TO 2=48"						
8E		17- RELOCATED DISCONNECT SWITCH AT DRINKING FOUNTAIN FROM 2=48" TO 54".						
7B		18- ADDED BELL PC 307 IN RADIO OFFICERS SR. ON OUTBD BHD.						
8C		19- AT RADIO RM WORKBENCH, RELOCATED OUTBD RECEPT FROM 2=30" TO 2=37"						
6F		20- RELOCATED TELEPHONE PC 301 FWD IN CHIEF MATES RECEPTION RM & CHANGED "Z" DIMENSION FROM 2=54" TO 2=56".						
10E		21- RELOCATED SWITCH & RECEPT. AT CHIFFONIER IN PASS. SR. B-6 TO INBD BHD.						
11G		22- RELOCATED RECEPT IN MASTER'S LOUNGE (NEXT TO PC 302) FROM 2=18" TO 2=30"						
14F		23- RELOCATED AFT LIGHTING FIXTURE PC. 65 IN 2ND MATES SR. B-4 1'-0" FWD.						
7A		24- RELOCATED RECEPT. OVER DESK IN RADIO OFF. S.R. B-5 FROM 2=48" TO 2=36"						
11F		25- RELOCATED RECEPT. NEAR KEY LOCKER IN MASTER'S OFFICE FROM 2=30" TO 2=42"						
7C		26- RELOCATED RECEPT AT RADIO CONSOLE TO MOUNT IN "H" POST & CHANGED "Z" DIM. FROM 2=36" TO 2=48".						
9F		27- RELOCATED AFT INBD LIGHTING FIXTURE IN MASTER'S SR.						
9F		28- ADDED SWITCH IN "H" POST ON FWD END SIDEBOARD IN MASTER'S OFFICE						
		29- ITEMS 16-28 OF REV "D" MADE TO SUIT IRM COMMENTS W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56986 DTD SEPT 23 1971						
	E	1. PLAN REV "D" APPROVED BY J.J.H. YARD REP. BY IRM S-07-0686 DATED 11/1/71.	1/6/72					
ALL		2. INDICATED HEIGHTS OF ELECTRIC HEATERS IN ALL T/S SPACES TO SUIT DEVELOPMENT.						
9G		3. CHANGED HINGED ACCESS PNLS. TO ACCESS OPNGS IN MASTERS SR. CLG 15" AFT FR 37 & 11'-2" & 13'-8" OFF ℄ STBD.						
11G		4. CHANGED HINGED ACCESS PNLS. TO ACCESS OPNGS. IN MASTERS LOUNGE CLG, 15" AFT FR 37 & 13'-1" OFF ℄ PORT.						
		5. THE FOLLOWING ITEMS OF AEA # S-0812 WERE ACCOMPLISHED BY:						
7F		a) ITEM "a" OF AEA # S-0812 BY ITEM 10 & 11 OF REV. "D".						
7B		b) ITEM "b" OF AEA # S-0812 BY ITEM 10 & 11 OF REV. "D".						
7A		c) ITEM "c" OF AEA # S-0812 BY ITEM 9 & 11 OF REV. "D". (REVISED HGT. OF ACCESS PNL OFF DECK FROM 30" TO 4'-6")						
8E		d) ITEM "d" OF AEA # S-0812 BY ITEM 10 & 11 OF REV "D".						
8F		e) ITEM "e" OF AEA # S-0812 BY ITEM 10 & 11 OF REV. "D".						
8E		f) ITEM "g" OF AEA # S-0812 BY ITEM 9 & 11 OF REV. "D".						
9D		g) ITEM "h" OF AEA # S-0812 BY ITEM 10 & 11 OF REV. "D".						
13F		h) ITEM (j) OF AEA # S-0812 BY ITEM 10 & 11 OF REV. "D".						
		REVISION "E" CONTINUED IN PANEL 19						



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GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-533-01-11 GD NO. 30574-50x01 FRAME 1 2 ③ 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-533-01-12 GD NO. 30574-50-02 FRAME ① 2 3 4

M.A. DWG NO. 241-533-01-15

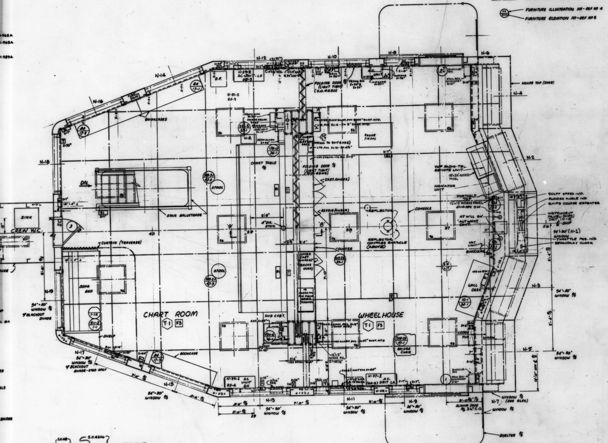
LIST OF MATERIAL QUANTITIES FOR ONE

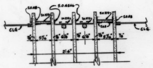
EXCEPT AS OTHERWISE NOTED SPECIFICATIONS ARE THOSE IN EFFECT ON MAY 26 1968

PIECE NO.	QUANTITY INSTL		QUANTITY OBRP	MATL OR VDRS DWG	VENDOR CODE	SPEC	REMARKS	NAME	PATT NO.	SOURCE
1	1			STL				48"x 13'x 7.65# PL		9-20-05006
2	10.0 LIN FT			STL				2"x 2"x 3/8" L	ERS-230795	9-20-00352
3	9			STL GALV				RD HD MACH SCR 3/8" 16-UNC-2A LG=3/4"		9-60-16431
4	9			STL GALV				HEX NUT 3/8" 16-UNC-2B		9-60-08759

JOINER SYMBOLS

STEEL BULKHEAD
JOINER BULKHEAD
48D — PANEL SIZE
JOINER LINING
CLEAR OPENING
JOINER DOOR NO. - REF. NO 3
JOINER DOOR
STEEL DOOR
JOINER CEILING PANEL JOINT
FURNITURE ILLUSTRATION NO - REF NO 4
FURNITURE ELEVATION NO - REF NO 5




DETAIL-8-A
SCALE 1½"=1'-0"

RESERVATIONS

~~1. CEILING LAYOUT PENDING RECEIPT OF ELECTRICAL PLAN.~~
~~2. SIZE OF WINDOW IN HOUSE SIDE FWD. SLIDING DOOR.~~
~~3. LAYOUT OF ELECTRICAL EQUIPMENT.~~
~~4. MAST HOUSE~~

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	B	1-PLAN REV "A" APPROVED BY J.J. HENRY LTR FILE 5589/533/JJM-56-71 DTD FEB.17.71	7/14/71 A.J.V.	F.R.Coyle			16 JUL 1971	W.D.B.
6C-F		2-JOINER BHDS IN WAY OF FOLDING DOORS BETWEEN WHEELHOUSE & CHART ROOM REVISED TO SUIT ELECTRICAL REQUIREMENTS						
6F		3-DELETED CAB'T W/SHELVES JMD SKETCH NO 430-6 ELEV NO H-2 IN CHART RM TO SUIT REF NO 8.						
8D		4-REVISED JMD SKETCH NO FOR FLAG LKR FROM 454-2 TO 454-4.						
4BF-8DF		5-REVISED CLG PANEL LAYOUT IN WHEEL HOUSE & CHART RM;						
3C		6-ADDED FINISH SYMBOL LIST & INDICATED FINISH SYMBOLS IN WHEELHSE & CHART RM.						
3B		7-REVISED TITLES & DWG NOS IN LIST OF REFERENCES.						
4B		8-ADDED DETAIL "8-A"						
1A		9-ADDED ZONE NO TO TITLE BLOCK						
		10-ITEMS 4 TO 9 OF REV "B" MADE TO SUIT DEVELOPMENT.						
4BF-6BF		11-REVISED AND INDICATED HGTS OF ELEC. FIXTURES TO SUIT REF NO 8						
2A		12-USCG. APPROVAL ADDED TO TITLE BLOCK TO SUIT USCG LTR FILE 5940 DTD DEC.22.1970.						
8D,4A		13-REVISED MAST HSE TO SUIT GD/Q DWG NO 30325-120 REV "D". RELEASED REF NO 4 TO SUIT.						
4CF-8CF		14-INDICATED WINDOW CASING NOS TO SUIT REF NO 7						
8E		15-RELOCATED W.C. IN CREW W.C. TO SUIT SHIPYARD REQUEST.						
	C	1 PLAN REV "B" APPROVED BY JJH FIELD REP JULY 16 1971.		F.R.Coyle				
		2-ADDED MICROFILM MARKS TO SUIT GD/Q LTR. FILE 320A/533(11)/SJG/AND/JJM-56056 DTD 7/8/71						
6C,6F		3-REVISED LOCATIONS OF AC UNITS RD4 & RD-5, INDICATED THERMOSTATS TO SUIT GD/Q PLAN NO 30324-230 REV "D" - RELOCATED ELECTRICAL FIXTURES TO SUIT.						
6C,6F		4-ADDED 12"x12" H.A.P'S. FOR VALVES FR 38 + PORT OUTBD LINING AND FR 38 STBD. OUTBD LINING TO SUIT GD/Q PLAN NO 30324-200 REV "D".						
5C,5F, 6C,6F, 7C,7F		5 RELOCATED (6) OVERHEAD LIGHTS PC 96 IN WHEELHOUSE & CHART RM FROM 8'-0" OFF ℄ TO APPROX 9'-0" OFF ℄ (3 PORT & 3 STBD) TO SUIT IBM COMMENTS W/ GD/Q LTR FILE 320A/533/(11)/SJG/AND/JJM-56986 DTD SEPT 23 1971.						
	D	1. PLAN REV "C" APPROVED BY		F.R.Coyle				
6F		2. ADDED 4"x4" ACCESS PNL IN MARINITE ENCLOSURE FOR FOLDING DOOR 37½" AFT FR 38 & 7'-10" OFF ℄ TO PORT & 63" ABV DK. TO SUIT AEA #S-0930 W/ GD/Q LTR. FILE 320A/533/(11)/SJG/AND/JJM-57100 DTD NOV. 22 1971. THIS INCORPORATES AEA # S-0930. (SMG - NOV 30 1971)						
8D&E		3. DELETED SHT. MTL. LINING IN CREW W.C. TO SUIT YARD COMMENTS						
6C	E	1. ADDED 12"x5" ACCESS PNL IN WHEELHOUSE JOINER BHD 9'-1½" OFF ℄ OF SHIP (STBD) 18½" BELOW CEILING FOR SERVICING F.M. GAGE.	1-7-72 A.F.	F.R.Coyle				
5E		2. ADDED 18"x20" ACCESS PNL IN WHEELHOUSE JOINER BHD ADJACENT TO INDICATOR UNIT ABT 54" OFF ℄ SHIP (PORT) & ABT 18" ABV DK.						
5C,5F		3. RELOCATED BINOCULAR BOX IN WHEELHOUSE TO JOINER BHD ABT 12'-0" OFF ℄ SHIP P&S ABT 22" FWD FR 37.						
10E		4. ADDED DET 10-E "INSTRUMENT PANEL" LOCATED IN WHEELHOUSE ABT FR 36½", ON ℄ OF SHIP. L/M PC 1 THRU 4 ADDED & TYP SECT THRU WINDOW HSE FRONT REV TO SUIT. SOURCE: ITEM #1 AEA S-1026-LYKES #2 AEA S-0924-LYKES #3 DES DEV #4 AEA S-0873-LYKES MATERIAL CHANGES: PC #1 CODE 9-20-05006 ADDED 4.32 SQ.FT. PC #2 9-20-00352 10.00 LIN. FT PC #3 9-60-16431 9 PCS PC #4 9-60-08759 9 PCS						

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	1.-PLAN REV "O" APPROVED BY J.J.H. LTR FILE 5589/593/AHS-594-70 DTD AUG 26, 1970						
6D&E		2-INDICATED REFRIG & COFFEE CAB'T IN WHEELHOUSE COUNTER						
6D		3-LOCATED CENTERLINE STANCHION 21½" FWD OF FR 39.						
8E,6F		4-RELOCATED A.C. UNIT ON AFT BHD OF CHART RM TO PORT BHD.						
5,6,7C&F		5-INDICATED HANDS OF A.C. UNITS.						
ALL		6-INDICATED LIGHTING FIXTURES & ELECT. EQUIP. ADDED ELECT. SYMBOL LIST & RELEASED REFS. NOS. 1 & 3.						
1A,2B		7. ADDED M.A. DWG NOS TO TITLE BLOCK & REFERENCES.						
4A		8. RELEASED REF. NO. 2.						
10D&E,10D, 10E,10D,11E		9. REV. & WINDOW LINING DEPTH IN PLAN & TYP. SECT. THRU WINDOWS HOUSE FRONT. ITEMS 2-7 OF ALT "A" MADE TO SUIT J.J.H. LTR FILE 5589/593/AHS-594-70 DTD AUG. 26, 1970						
8E		10. ADDED SM. LINING & LOCATE W.C. DRAIN IN MAIN MAST. ITEMS 8, 9 & 10 TO SUIT DESIGN DEV.						

REVISIONS	O	A	B	C	E	F
TO					1 7 2	8 8 2
LYKES					1	1
M.A.(WASH)					1	1
M.A.(YARD)					1	1
J.J.HENRY(YARD)					1	1
J.J.HENRY(HOME)					2	2
ABS					1	1
USCG					1	1
USPHS						
871					6	6
872						
873						
874						
875						
876						
9606 108					1	1
866					1	1
TOTAL NRO'S FS						
TOTAL NRO'S HS					16	16
TOTAL RO						

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
	E	1/10/72	800	4	
30212	F	8-10-72	820	5	
			826	12	
			829		
			830	7	
			841		
			842		
			843		
			844	5	
			899		
			LIBRARY	3	
			TOTAL	36	

GENERAL NOTES

1. NAVIGATING BRIDGE & HOUSE TOP HAVE CAMBER, NO SHEER
2. CEILING IN WHEELHOUSE & CHART ROOM SHALL BE SET LEVEL; 7'-5" ABV. STEEL DECK AT ℄ OF SHIP. CHART TABLE & COUNTER TOPS SHALL BE SET LEVEL: 3'-4" ABV. STEEL DECK AT ℄ OF SHIP.
3. FOR ARRANGEMENT OF ELECTRICAL EQUIPMENT SEE REF NO 8

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
5E	F	1. ADD 12"x12" ACCESS PANEL IN WHEELHOUSE ABT FR 36½, 36" OFF ℄ PORT ABT 19" ABV DK.	8/10/72	F.R.Coyle				
5E		2. MADE TOP OF EXP. MET. ENCLOSER PORTABLE, IN WAY OF INDICATOR UNIT SOURCE: ITEM 1 & 2 INC AEA S-1385-LYKES						

FINISH SYMBOLS

BULKHEADS T1 - PLASTIC; GREEN MISTLETOE, MICARTA # 91-M-07
TRIM. F3 - PAINT; R-195, RENAISSANCE GREEN; DUPONT # IMG-266

REFERENCES

NO.	TITLE	JMD DWG. NO	Q div DWG NO.	M.A. DWG NO.
10.	PASS. STORM RAILS & RAILS IN WHEELHSE & CHART RM	9560-HR-1	30532-08-01	241-516-4-26
9.	STAIRS, LAYOUT & DETAILS	9560-S-1	30587-15-01	241-516-4-27
8.	ELECTRICAL ARRGT-WHEELHOUSE & CHART RM	—	30324-601-609	——
7.	CASINGS FOR WINDOWS IN PILOT HSE.	AW-2	30546-10-02	241-512-03-03
6.	CURTAINS - SCHED. & DETAILS	LR-1	30571-25-01	241-533-6-3
5.	LIST OF FURNITURE	FE-1	30571-20-02	241-533-6-4
4.	FURNITURE ILLUSTRATIONS	FI-1	30571-20-01	241-533-6-8
3.	SCHEDULE JOINER DOORS, ELEV & DRWG	JDR-1	30574-15-03	241-516-3-1
2.	TYPICAL JOINER DETAILS	JD-1	30574-15-01	241-533-1-4
1.	JOINER GENERAL ARRGT - BRIDGE DK.	9560-JA-6	30574-50-01	241-533-1-11

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

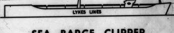
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
F 12-27-72
F 11-19-73

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO.
30574-50-02

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN J.M.D.
DSGNR
SUPV
ENGR

JOINER GENERAL ARRANGEMENT
NAVIGATING BRIDGE DECK
ZONE NUMBER - 380

APPROVED DATE 7/30/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-533-01-12	F

SCALE ½"=1'-0" SHEET 1 OF 1

APPROVAL LTR DATED
ABS
USCG 12/22/70
USPHS 3/19/71

OWNERS APPROVAL LTR DTD - 8-26-70
A.V.M. CORPORATION
JAMESTOWN METAL DIVISION
P.O. BOX 1 RONKONKOMA, N.Y. 11779
J.M.D. DWG NO 9560-JA-7 ALT. D

AREA = SQ FT

12/19/71

Q div DWG NO. 30574-50-02

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO. 241-533-01-12 GD NO. 30574-50-02 FRAME 1 ②3 4

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION	VENDOR
81	DESK LIGHT	
85	CEILING FIXTURE FLUOR, TYPE 26, (2) 20W, SURFACE MTD, DP.	SIMES 48499
91	NIGHT LIGHT	
96	CEILING FIXTURE, FLUOR, TYPE 55, (4) 20W, RECESSED NWT.	SIMES 45972
SP. LT.	SPOT LIGHT (TO SHINE ON CLOCK)	
☐	RECEPTACLE	
☒	SWITCH-	
☒ 3W	3WAY SWITCH-	
☐ DS	DOOR OPERATED SWITCH	
ELG	ELG LTG. DISTR. PNL 120V. SURFACE MTD DP 21 CKT	WHITMOR-H-965A
SL16	SL16 LTG. DISTR. PNL 120V. SURFACE MTD DP 18 CKT	WHITMOR H-965A
R PNL	NAVIGATION & SIGNAL LT. PNL FLUSH MTD NWT	
LTG PNL	SIGNAL LT (XMAS TREE) PANEL, FLUSH MTD NWT	WHITMOR-H-989A
R	RELAY FOR SHIPS SERVICE & EMERG. CEILING FIXTURES	

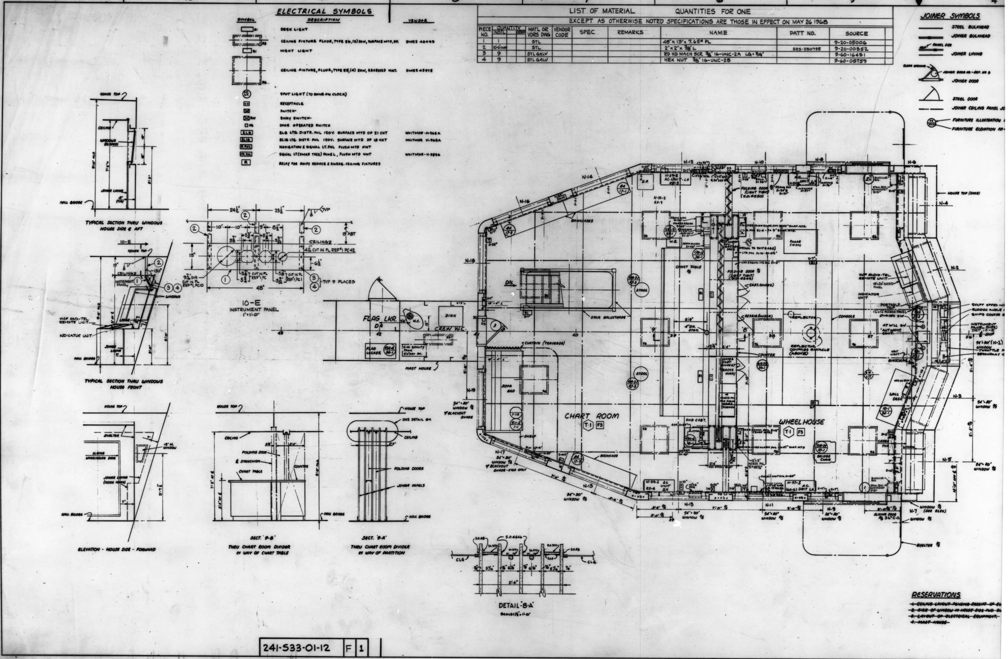
LIST OF MATERIAL QUANTITIES FOR ONE

EXCEPT AS OTHERWISE NOTED SPECIFICATIONS ARE THOSE IN EFFECT ON MAY 26 1968

PIECE NO.	QUANTITY INSTL		QUANTITY OBRP	MATL OR VDRS DWG	VENDOR CODE	SPEC	REMARKS	NAME	PATT NO.	SOURCE
1	1			STL				48" x 13" x 7.65# PL		9-20-05006
2	10'-0" LUA			STL				2" x 2" x 3/8" L	ERS-230795	9-20-00352
3	9			STL GALV				RD HD MACH SCR 3/8" 16-UNC-2A LG=3/4"		9-60-16431
4	9			STL GALV				HEX NUT 3/8" 16-UNC-2B		9-60-08759

JOINER SYMBOLS

- STEEL BULKHEAD
- JOINER BULKHEAD
- PANEL SIZE
- JOINER LINING
- CLEAR OPENING
- JOINER DOOR NO. - REF. NO. 3
- JOINER DOOR
- STEEL DOOR
- JOINER CEILING PANEL JO
- FURNITURE ILLUSTRATION
- FURNITURE ELEVATION NO.



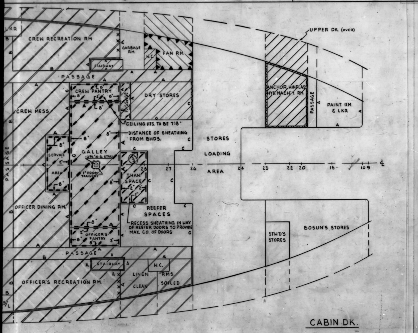
11
10
9
8
7
6
5
4
TYPICAL SECTION THRU WINDOWS HOUSE SIDE & AFT
TYPICAL SECTION THRU WINDOWS HOUSE FRONT
ELEVATION - HOUSE SIDE - FORWARD
10-E INSTRUMENT PANEL 1"=1'-0"
CEILING
SECT. '9-B' THRU CHART ROOM DIVIDER IN WAY OF CHART TABLE
SECT. '9-A' THRU CHART ROOM DIVIDER IN WAY OF PARTITION
DETAIL '8-A' SCALE 1½"=1'-0"
FLAG LKR.
CREW W.C.
SINK
MAST HOUSE
CHART ROOM
WHEELHOUSE
CHART TABLE
SOFA
STOOL
CONSOLE
REFLECTOR
BOOKCASES
STAIR BALUSTRADE
WINDOW
SHELTER
HOUSE TOP
NAV. BRIDGE
N-1
N-2
N-3
N-4
N-5
N-6
N-7
N-8
N-9
N-10
N-11
N-12
N-13
N-14
N-15
N-16
N-17
N-18
N-19

RESERVATIONS

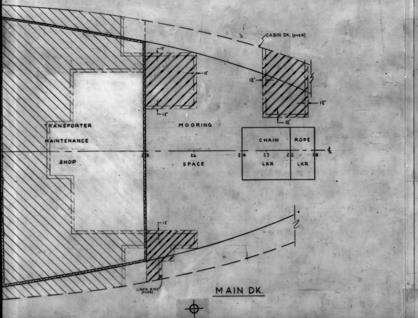
~~1. CEILING LAYOUT PENDING RECEIPT OF EL~~
~~2. SIZE OF WINDOW IN HOUSE SIDE FWD. SU~~
~~3. LAYOUT OF ELECTRICAL EQUIPMENT.~~
~~4. MAST HOUSE~~

241-533-01-12 F 1

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-539-1-01 GD NO. 30575-10x1 FRAME ① 2 3 4



CABIN DK.



MAIN DK.

LEGEND

SYMBOL			CONSTRUCTION	
1	2	3	4	5
Nº	OVHD	BHD	DETAIL	REMARKS
1	▨	═	1"T, 2"T BATT, JOINER SHEATHING	JOINER SHEATHING BY OTHERS
2	▨		1"T, 2"T BATT, CRES-#16 GA	OVHD OF WEATHER EXPOSED MOORING STATIONS
3	▨	═	1"T, 2"T FACED BD	
4	▨	═■═	1"T BATT, 2"T BATT, CRES OVHD #20GA, BHD #16GA	IN GALLEY SPACES
5				
6		═	1"T FACED BD., 2"T FACED BD.	MACH'Y CASINGS
7		═	2" FIRE, 4" FIRE, GALV.-#16 GA	A-60 FIRE
8		○○○○○○	JOINER, JOINER, 2" ACOUSTIC BATT	
9	▨	▼▼▼	1"T, 2" ACOUS. PERF. BD. NOTE: INSTALL 1"T ONLY WHERE EXPOSED TO WEATHER.	
10		××××××	2" ACOUS. BATT., JOINER SHEATHING	
11		- - - -	CRES SHEATH BHD #16 GA.	UNINSULATED SURFACES IN COMMISSARY SPACES
12	▨		1"T, 2"T BATT, CRES #20 GA.	THAW SPACE

GENERAL NOTES (CONT'D)

D. FOR LEGEND 2 & 12 INSULATION MAY BE THINNED OR OMITTED IN WAY OF INSTALLED PIPING, VENT OR CABLE AREAS ON LYKES 18 ONLY.

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
9	D	1-2" ACOUSTIC INSULATION ADDED TO SHELL OF FAN ROOMS ON MAIN DECK FRS 48 TO 50 PORT & STBD.	3/20/72		-	—	—	—
9		2-2" THERMAL INSULATION ADDED TO OVHD OF PASSAGE FRS 41-43 UPPER DK. STBD. & PASSAGE FRS. 39-43 UPPER DECK PORT. AUTHORITY: AEA-S-1100 DATED JAN. 4-72						

REVISIONS			Q div		M.A.		OWNER	
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
3-B	A	1.1 REFERENCE "8" ADDED	[illegible]					
ALL		1.2 FIRE BHD CLASSIFICATIONS REVISED TO AGREE WITH ADDED REF. 8						
12-F		1.3 CABIN DK, FRS 95-96 (P): INSUL ON ADDED A-60 BHDS REVISED AUTH: 9/D LTR 16 NOV. 70, FILE 320A/537/(15)/JNM/AND/RMS-56242						
2-A		2.1 U.S.C.G. APPROVAL DATE ADDED						
10-A 10-C		2.2 MAIN DK, FRS 52-58 (S), MOORING STA.: CEILING HT. INDICATED AND PART PLAN 10-C ADDED LOCATING ACCESS OPENINGS IN CEILING AUTH: 9/D LTR 3 NOV. 70, FILE 320A/537/(15)/JNM/AND/RMS-56205						
9-A		3.1 MN. DK., FRS 46-47 (S): INSUL ADDED TO SHELL OF OFFICERS BAGGAGE						
9-A, 9-E		3.2 MN. DK., FRS 40-42 P/S: INSUL ADDED TO SHELL OF STAIRWAY						
5-E, 5-H		3.3 CABIN DK, FRS 29-31 P/S: INSUL ADDED TO BHDS						
11-E		3.4 STAIRWAY 10'-9" ABOVE LOWER DK, FRS 70-71 (P) ADDED AND INSUL PROVIDED ON BHDS IN WAY OF F.O. FILLING STA.						
5-G		3.5 CABIN DK, FR 27½ (P): INSUL ADDED TO OVHD						
9-E		3.6 MN. DK, FR 42-44 (P): INSUL ON OVHD OF CREW LAUNDRY CHANGED TO ACOUSTIC AUTH: JJ HENRY LTR 11 SEPT 70, FILE 5589/539/JUM-420-70						
10-G, 10-E		4. MN. DK, FRS 52-58 (P), MOORING STA.: CEILING HT. INDICATED AND PART PLAN 10-G ADDED LOCATING ACCESS OPENINGS IN CEILING AUTH: 9/D LTR 17 SEPT 70, FILE 320A/537/(15)/AND/RMS-56058						
9-F		5.1 CABIN DK, FR 43 (P): S/L ADDED						
8-A, 8-E		5.2 MAIN DK, FRS 34-40 P&S: FAN RMS CHANGED TO PASSAGES AND INSUL MODIFIED TO SUIT AUTH: LATEST REVISION OF REF. 3 & 4						
5-G		6. ANCHOR WINDLASS HYDRAULIC MACH'Y RM, CABIN DK, FRS 20-23 (P) INSUL ADDED TO OVHD AND ALL BHDS. AUTH: 9/D LTR 18 AUG 70, FILE 320A/537/(15)/AND/RMS-55939						
5E, F, G		7. DISTANCE OF SHEATHING FROM BULKHEAD CHANGED TO 8" IN CREW PANTRY, GALLEY, OFFICER'S PANTRY AND SERVICE AREA.						
5-F		8. DISTANCE OF SHEATHING FROM BULKHEAD IN THAW SPACE AFT BHD CHANGED TO 2". PORT BHD CHANGED TO 3/4". AUTH: DESIGN DEVELOPMENT						
11-14 6-E 11-C 11-H	B	1.1 DWG AFT OF FR 71 REDRAWN FOR CLARITY. 1.2 TWEEN DK, FRS 31-34 (S): FAN RM DELETED 1.3 UPPER DK, FRS 69-71 (P&S): PASSAGES ADDED AUTH: REV. "E" REF. 2, REV. "F" REFS 3, 4 & 5						
7-C		2.1 BRIDGE DK, FRS 39-40 (S): ACOUSTIC INSUL ADDED TO MASTER GYRO & TRANSM. RM IN WAY OF T/S & PASSAGEWAY ENCLOSURE BHDS. AUTH: DESIGN DEVELOPMENT						
12-F		3.1 CABIN DK, FRS 90-96 (P): CO_2 RMS #1 & 2. FIRE CLASSIFICATION OF INBD BHD CHANGED FROM A-60 TO A-0 AND FIRE INSUL DELETED TO SUIT. AUTH: USCG LTR OF 25 MAY 1971						
14-B 14-C		4.1 CABIN DK, FRS 126-130 (S): INSUL ON OVHD RELOCATED TO OVHD OF UPPER DK IN WAY OF ELEV & STERN GATE OPER STA. (over) AUTH: TO CORRECT						
8-B, 8-F 9-B, 9-E		5.1 CABIN DK, FRS 34-44 P&S: THERMAL INSUL ADDED TO VENTS. AUTH: J.J. HENRY LTR MAR. 3, 71, FILE: 5589/539/JUM-49-71						
5-A, 5B 5-C, 5D 6-E, 6-F 6-G, 6-H		6.1 MAIN DK, FRS 28-34: TRANSPORTER MAINTENANCE SHOP. OPENINGS FOR BARGE TRANSPORTER INDICATED ON BHD 34 P&S. ACOUSTIC INSUL ADDED TO OVHD.						
11-C, 11-G		7.1 UPPER DK, FRS 70-71 (P&S): INSUL PROVIDED IN MACH'Y CASINGS IN WAY OF STAIRWAYS.						
11-D		8.1 PART PLAN, FRS 67-70 (P), 10'-9" ABOVE LOWER DK REDRAWN. INSUL SHOWN ON STAIRWAY BHDS IN WAY OF F.O. FILLING STA. & WITHIN MACH'Y SPACE IN WAY OF STAIRWAY						
5-B, 5-C		9.1 MAIN DK, FRS 18-28: INSUL ON OVHD CHANGED FROM FACED BOARD TO BATT AND CRES SHEATHING						
5-G		10.1 CABIN DK, FRS 28-29 (P), PASSAGE TO GALLEY: CRES ADDED TO OVHD AND BHDS						
11-A, 11-C 11-G		11.1 STAIRWAYS, FRS 69-71, UPPER DK (P/S) AND MAIN DK (S): INSUL INDICATED ON BHDS.						
9-E		12.1 MAIN DK, FRS 42-44 (P), CREW LAUNDRY: CRES SHEATHING INDICATED ON BHDS. AUTH: ITEMS 6.1 TO 12.1: J.J.H. LTR MAR. 3, 71, FILE: 5589/539/JUM-49-71						
12-B		13.1 CABIN DK. FRS 82-106 (S), ENGINEERS STORES: ARCHES INDICATED AT FRS 88, 94 & 99 AUTH: REF. 4, REV. F						
6-C, 6-G		14.1 TWEEN DK, FRS 22-26½ (P), BOW THRUSTER CONTROL RM: INSUL ADDED TO ALL BHDS & UNDERSIDE AUTH: DESIGN DEVELOPMENT						
11-F		15.1 CABIN DK, BHD 82 (P), EMER. GEN. RM: A-60 INSUL DELETED AUTH: DESIGN DEVELOPMENT	[illegible] A.J.V.				10 SEP 1971	
2-A		16.1 U.S.P.H.S. APPROVAL DATE ADDED						
		17.1 MARKINGS FOR MICROFILM ADDED						

GENERAL NOTES

A. FOR GENERAL NOTES SEE REFERENCE Nº 1

B. ALL OVERHEAD METAL AND PERFORATED MARINE VENEER SHEATHING IS TO BE 7'-3" ABOVE THE FINISHED DECK, EXCEPT IN THE MOORING SPACE, MAIN DK. FRS. 52-58 PORT AND STBD.

C. METAL SHEATHING IS TO BE LOCATED FROM BULKHEADS AS SHOWN FOR EACH SURFACE ON THE DRAWING. (GEN NOTES CONT'D IN PANEL 4)

ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
6-B	C	1- INSULATION ADDED TO OVHD ENGRS. STORES IN WAY OF ELECTRICAL WORK SHOP OVER AUTHORITY: IRM Nº S-0429, DATED AUG. 25 1971 WHICH INCLUDES THE APPROVAL OF REV. B	11/5/71 A.J.V.				2 Dec 1971	
7A-7D 8B-8F 9B-9F		2- REVISED MAST HOUSING BRIDGE DECK & NAV. BRIDGE DECK 3- INSULATION RELOCATED TO INSIDE OF VENTS. CABIN DECK FRS 34-35 P/S CABIN DECK FRS 43-44 P/S						
4, 6, 7, 9 10, 12 14		4- MICROFILM MARKINGS MODIFIED						
3		5 IN LEGEND CONSTRUCTIONS 1, 3, & 9 REVISED TO SHOW 1" THERMAL ON WEBS. CONSTRUCTIONS 2 & 12 REVISED TO SHOW 1" THERMAL ON WEBS & FLANGES						
5		6 IN LEGEND CONSTRUCTION 5 DELETED AND SYMBOL IN CREW MESS, & CREW RECREATION ROOM, OFFICERS DINING ROOM, & OFFICERS RECREATION REVISED TO SUIT 7 GENERAL NOTE D ADDED AUTHORITY: DES CORRECTION						

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
8	INDICATION OF FIRE RESISTANT BULKHEADS	SK.30H-21-2	—
7	HVAC DIAGRAMS SHTS #1-5 INCL	30643-04	241-538-01-03
6	COMPT & ACCESS & GEN ARRGT. FCSLE, POOP DK & ABOVE	30211-03-7	241-516-1-7
5	COMPT & ACCESS & GEN ARRGT UPPER DK	30211-03-6	241-516-1-5
4	COMPT & ACCESS & GEN ARRGT CABIN DK	30211-03-5	241-516-1-5
3	COMPT & ACCESS & GEN ARRGT MAIN DK	30211-03-4	241-516-1-4
2	COMPT & ACCESS LOWER DK & TWEEN DK	30211-03-3	241-516-1-3
1	THERMAL & ACOUSTIC INSULATION DETAILS	30575-10X2	241-539-1-02

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REVISIONS	O	A	B	C	D
TO		1/19/71	9/13/71	12/3/71	3/21/72
LYKES		1	1	1	1
M.A.(WASH)		1	1	1	1
M.A.(YARD)		1	1	1	1
J.J.HENRY(YARD)		1	1	1	1
J.J.HENRY(HOME)		1	2	2	2
ABS		1	1	1	1
USCG		1	1	1	1
USPHS		-	-		
871		5	9	6	6
872		2	-	-	
873					
874					
875					
876		1	-		
L/A		1	1	1	1
[illegible]				1	1
TOTAL NRO'S FS		16			
TOTAL NRO'S HS			18	[illegible]	16
TOTAL RO					

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	1-26-1	800		4
	B	9-13-1	820		
	C	12-3-1	826		12
	D	3-21-2	829		
			830		7
			841		
			842		
			843		
			844		5
			899		
			LIBRARY		3
			812		1
			812		1
			TOTAL		34

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30575-10X1
E.C.S. NO. 791-1

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN E.C.S.
DSGNR
SUPV A.J. Sironi
ENGR

THERMAL & ACOUSTIC INSUL.
AND
SHEATHING ARRANGEMENT

APPROVED DATE Fred Rolfe 7/17/70
FOR GENERAL DYNAMICS QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S39-1-01	D

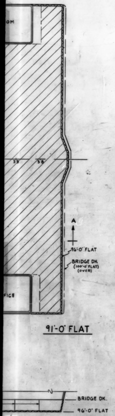
SCALE 1/8" = 1'-0" SHEET OF

APPROVAL LTR DATED
ABS
USCG 7/13/70
USPHS 6/8/71

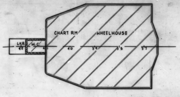
MICROFILMED
D 3-13-72
D 11-15-73

AREA = 34 SQ FT

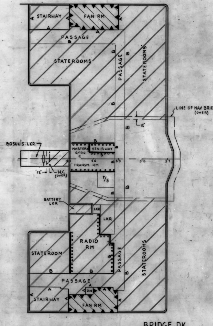
GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO.241-S39-1-01 GD NO. 30575-10x1 FRAME 1 ② 3 4


OM
FICE
A
96'-0" FLAT
BRIDGE DK (100'-0" FLAT) (OVER)
BRIDGE DK.
96'-0" FLAT

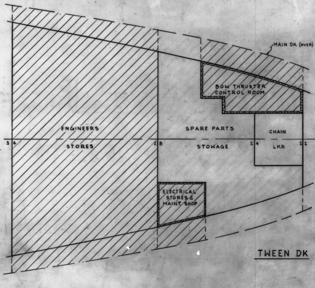
91'-0" FLAT


LKR
W.C.
CHART RM
WHEELHOUSE

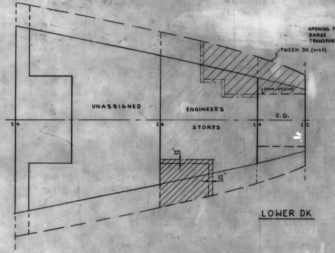
NAV. BRIDGE DK.


STAIRWAY
FAN RM.
PASSAGE
STATEROOMS
PASSAGE
STATEROOMS
LINE OF NAV BRIDGE DK. (OVER)
12"
BOSUN'S LKR
MASTER GYRO
STAIRWAY
TRANSM. RM.
W.C. (OVER)
T/S
BATTERY LKR
LKR
LKR
RADIO RM
STATEROOM
PASSAGE
STATEROOMS
PASSAGE
DN
STAIRWAY
FAN RM.

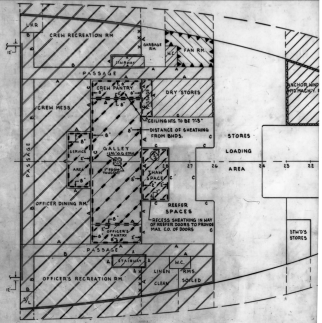
BRIDGE DK.

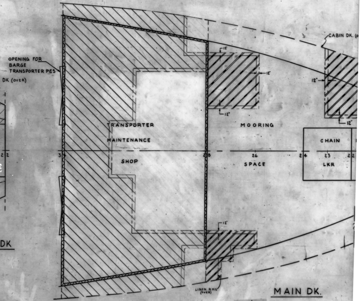

MAIN DK (OVER)
BOW THRUSTER CONTROL ROOM
ENGINEERS STORES
SPARE PARTS STOWAGE
CHAIN LKR
ELECTRICAL STORES & MAINT. SHOP

TWEEN DK


TWEEN DK (OVER)
CHAIN LKR (OVER)
UNASSIGNED
ENGINEER'S STORES
C.D.
12"
12"

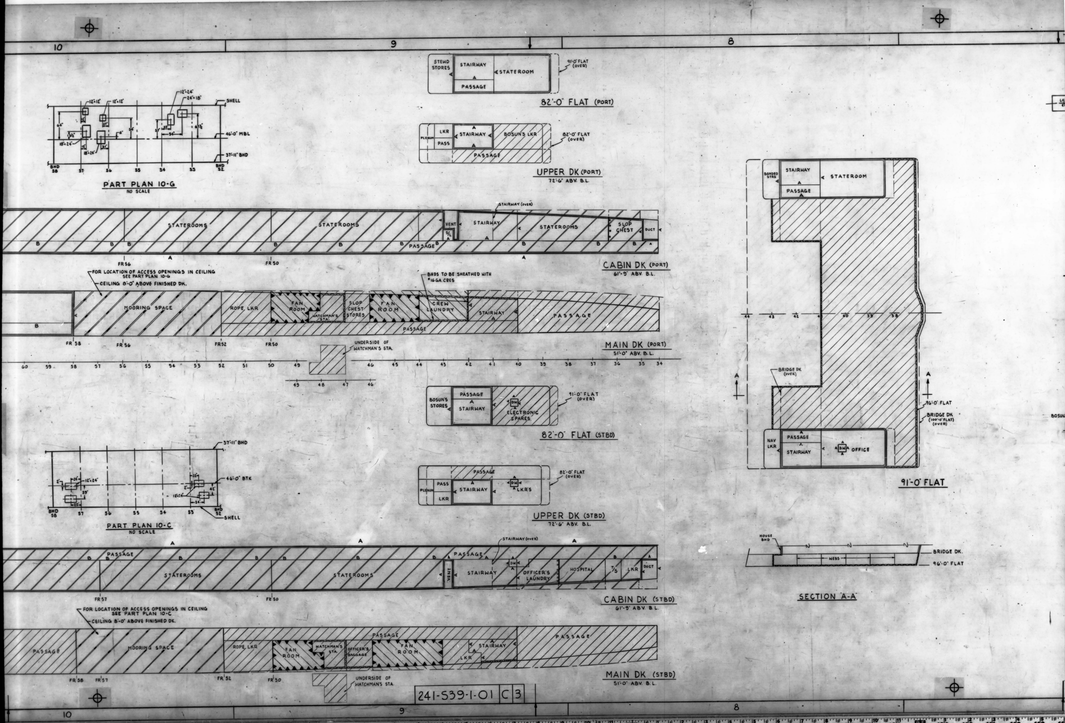
LOWER DK


LKR
CREW RECREATION RM
GARBAGE RM.
W.C.
FAN RM.
STAIRWAY
PASSAGE
CREW PANTRY
DRY STORES
CREW MESS
CEILING HTS. TO BE 7'-3"
DISTANCE OF SHEATHING FROM BHDS.
PASSAGE
SERVICE AREA
GALLEY
THAW SPACE
STORES LOADING AREA
ANCHOR WIND. HYD. MACH'Y.
OFFICER DINING RM.
REEFER SPACES
RECESS SHEATHING IN WAY OF REEFER DOORS TO PROVIDE MAX. C.O. OF DOORS
OFFICER'S PANTRY
STW'D'S STORES
PASSAGE
STAIRWAY
LINEN CLEAN
W.C.
RMS SOILED
OFFICER'S RECREATION RM.
12"
12"


CABIN DK.
OPENING FOR BARGE TRANSPORTER P&S
12"
TRANSPORTER MAINTENANCE SHOP
MOORING SPACE
CHAIN LKR
LINEN RMS (OVER)
12"

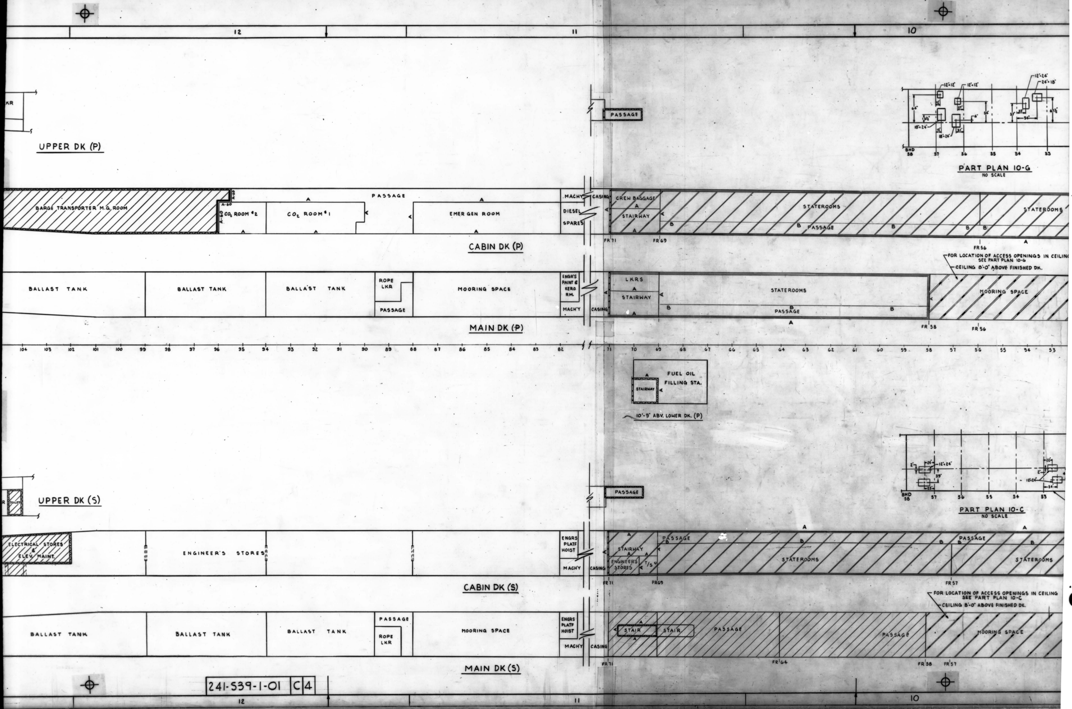
MAIN DK.

241-S39-1-01 C 2


10
9
8
STEWD STORES
STAIRWAY
STATEROOM
PASSAGE
91'-0" FLAT (OVER)
82'-0" FLAT (PORT)
PLENUM
LKR
PASS
STAIRWAY
BOSUN'S LKR
PASSAGE
82'-0" FLAT (OVER)
UPPER DK (PORT)
72'-6" ABV. B.L.
12"x12"
12"x24"
24"x18"
18"x24"
SHELL
46'-0" MBL
37'-11" BHD
BHD 58
57
56
55
54
53
BHD 52
PART PLAN 10-G
NO SCALE
STAIRWAY (OVER)
STATEROOMS
STATEROOMS
VENT
S/L
STAIRWAY
STATEROOMS
SLOP CHEST
DUCT
PASSAGE
FR 56
FR 50
CABIN DK (PORT)
61'-9" ABV. B.L.
FOR LOCATION OF ACCESS OPENINGS IN CEILING SEE PART PLAN 10-G
CEILING 8'-0" ABOVE FINISHED DK.
BHDS TO BE SHEATHED WITH #16 GA. CRES
MOORING SPACE
ROPE LKR
FAN ROOM
WATCHMAN'S STA.
SLOP CHEST STORES
FAN ROOM
CREW LAUNDRY
STAIRWAY
PASSAGE
PASSAGE
FR 58
FR 56
FR 52
FR 50
UNDERSIDE OF WATCHMAN'S STA.
MAIN DK (PORT)
51'-0" ABV. B.L.
60 59 58 57 56 55 54 53 52 51 50 49 46 45 44 43 42 41 40 39 38 37 36 35 34
49 48 47 46
BOSUN'S STORES
PASSAGE
STAIRWAY
DW
ELECTRONIC SPARES
91'-0" FLAT (OVER)
82'-0" FLAT (STBD)
PASSAGE
PLENUM
PASS
LKR
STAIRWAY
DW
LKR'S
82'-0" FLAT (OVER)
UPPER DK (STBD)
72'-6" ABV. B.L.
37'-11" BHD
12"x24"
46'-0" BTK
SHELL
BHD 58
57
56
55
54
53
BHD 52
PART PLAN 10-C
NO SCALE
A
PASSAGE
STATEROOMS
STATEROOMS
STAIRWAY (OVER)
PASSAGE
VENT
STAIRWAY
DW
OFFICER'S LAUNDRY
HOSPITAL
T/S
LKR
DUCT
FR 57
FR 50
CABIN DK (STBD)
61'-9" ABV. B.L.
FOR LOCATION OF ACCESS OPENINGS IN CEILING SEE PART PLAN 10-C
CEILING 8'-0" ABOVE FINISHED DK.
PASSAGE
MOORING SPACE
ROPE LKR
FAN ROOM
WATCHMAN'S STA.
OFFICER'S BAGGAGE
FAN ROOM
PASSAGE
STAIRWAY
LKR
PASSAGE
FR 58
FR 57
FR 52
FR 50
UNDERSIDE OF WATCHMAN'S STA.
MAIN DK (STBD)
51'-0" ABV. B.L.
BONDED STRS
STAIRWAY
STATEROOM
PASSAGE
44 43 42 41 40 39 38
BRIDGE DK (OVER)
96'-0" FLAT
BRIDGE DK (100'-0" FLAT) (OVER)
NAV LKR
PASSAGE
STAIRWAY
DW
OFFICE
91'-0" FLAT
HOUSE BHD
WEBS
BRIDGE DK.
96'-0" FLAT
SECTION "A-A"
241-S39-1-01 C 3

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

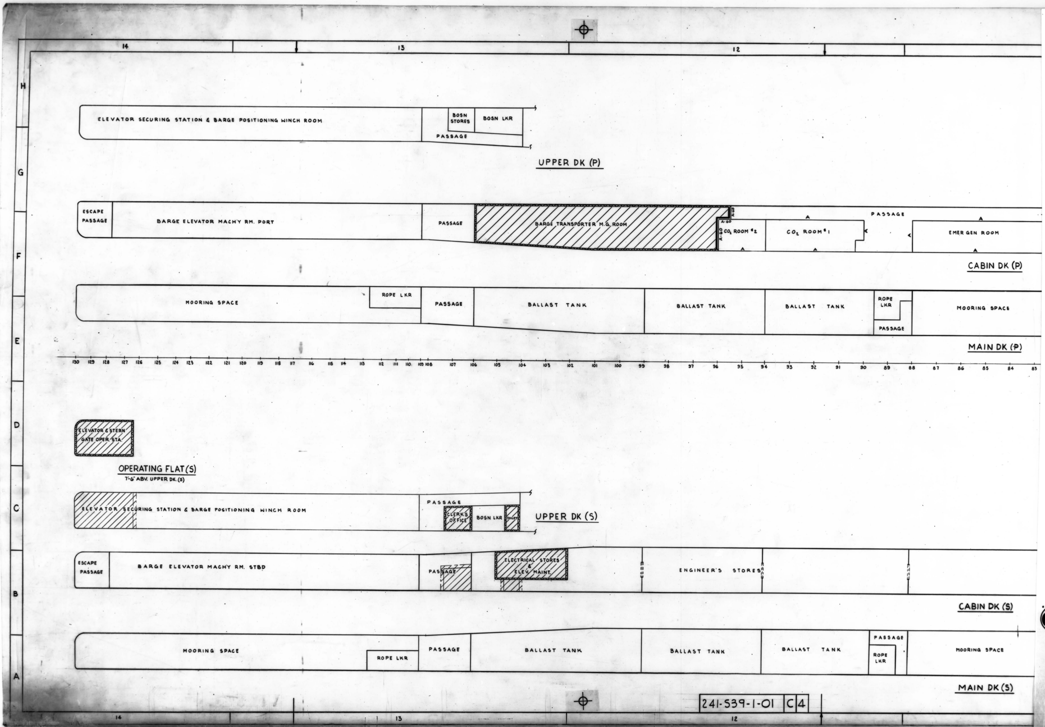
MA NO.241-539-1-01 GD NO. 30575-10x1 FRAME 1 2 ③ 4


12
11
10
LKR
UPPER DK (P)
PASSAGE
PART PLAN 10-G
NO SCALE
BHD 58
57
56
55
54
53
12"×12"
18"×24"
12"×24"
24"×18"
BARGE TRANSPORTER M.G. ROOM
A-60
CO₂ ROOM #2
CO₂ ROOM #1
PASSAGE
EMERGEN ROOM
MACHY
DIESEL
SPARES
CASING
CREW BAGGAGE
STAIRWAY
STATEROOMS
PASSAGE
STATEROOMS
FR 71
FR 69
FR 56
CABIN DK (P)
FOR LOCATION OF ACCESS OPENINGS IN CEILING SEE PART PLAN 10-G
CEILING 8'-0" ABOVE FINISHED DK.
BALLAST TANK
BALLAST TANK
BALLAST TANK
ROPE LKR
PASSAGE
MOORING SPACE
ENGR'S PAINT & KERO RM.
MACH'Y
CASING
LKRS
STAIRWAY
STATEROOMS
PASSAGE
MOORING SPACE
FR 58
FR 56
MAIN DK (P)
104 103 102 101 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82
71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53
FUEL OIL FILLING STA.
STAIRWAY
10'-9" ABV. LOWER DK. (P)
UPPER DK (S)
TOILET
PASSAGE
PART PLAN 10-C
NO SCALE
ELECTRICAL STORES & ELEV. MAINT.
ENGINEER'S STORES
ENGRS PLATF HOIST
MACHY
CASING
STAIRWAY
ENGINEER'S STORES
T/S
PASSAGE
STATEROOMS
PASSAGE
STATEROOMS
FR 71
FR 69
FR 57
CABIN DK (S)
FOR LOCATION OF ACCESS OPENINGS IN CEILING SEE PART PLAN 10-C
CEILING 8'-0" ABOVE FINISHED DK.
BALLAST TANK
BALLAST TANK
BALLAST TANK
PASSAGE
ROPE LKR
MOORING SPACE
ENGRS PLATF HOIST
MACHY
CASING
STAIR
STAIR
PASSAGE
PASSAGE
MOORING SPACE
FR 71
FR 64
FR 58
FR 57
MAIN DK (S)
241-S39-1-01 C 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-539-1-01 GD NO. 30575-10x1 FRAME 1 2 3 ④ .5

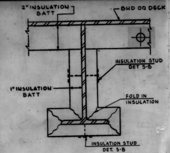
GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO.241-539-1-01 GD NO. 30575-10x1 FRAME 1 2 3 4 ⑤


ELEVATOR SECURING STATION & BARGE POSITIONING WINCH ROOM
BOSN STORES
BOSN LKR
PASSAGE
UPPER DK (P)
ESCAPE PASSAGE
BARGE ELEVATOR MACH'Y RM. PORT
PASSAGE
BARGE TRANSPORTER M.G. ROOM
A-60
CO₂ ROOM #2
CO₂ ROOM #1
PASSAGE
EMER GEN ROOM
CABIN DK (P)
MOORING SPACE
ROPE LKR
PASSAGE
BALLAST TANK
BALLAST TANK
BALLAST TANK
ROPE LKR
PASSAGE
MOORING SPACE
MAIN DK (P)
130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83
ELEVATOR & STERN GATE OPER. STA.
OPERATING FLAT (S)
7'-6" ABV. UPPER DK.(S)
PASSAGE
ELEVATOR SECURING STATION & BARGE POSITIONING WINCH ROOM
CLERK'S OFFICE
BOSN LKR
TOILET
UPPER DK (S)
ESCAPE PASSAGE
BARGE ELEVATOR MACH'Y RM. STBD
PASSAGE
ELECTRICAL STORES & ELEV. MAINT.
ENGINEER'S STORES
CABIN DK (S)
MOORING SPACE
ROPE LKR
PASSAGE
BALLAST TANK
BALLAST TANK
BALLAST TANK
PASSAGE
ROPE LKR
MOORING SPACE
MAIN DK (S)

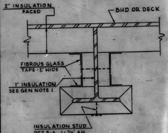
241-539-1-01 C 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-539-1-02 GD NO. 30575-10x2 FRAME ① 2 3 4



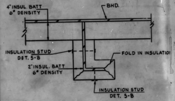
DETAIL 6-C

INSULATION ON WEBS AND FLANGES
SCALE 6"=1'-0"


2" INSULATION FACED
BHD OR DECK
FIBROUS GLASS TAPE - 2" WIDE
1" INSULATION SEE GEN NOTE 1
INSULATION STUD DET 5-A L=7/8" AW

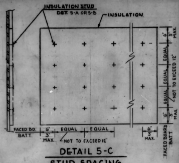
DETAIL 6-B

INSULATION ON WEBS AND FLANGES
SCALE : 6" = 1'-0"



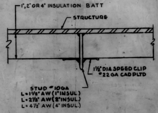
DETAIL 6-A

FIRE ZONE INSULATION
SCALE: NONE
(CONSTRUCTION 7 IN LEGEND)



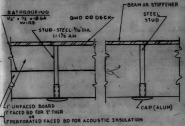
DETAIL 5-C

STUD SPACING
TYPICAL – ALL INSULATION
NO SCALE



DETAIL 5-B

METHOD OF SECURING INSULATION TO STRUCTURE
FULL SIZE


RATPROOFING 1/2" x 1/2 x 18GA WIRE
BHD OR DECK
STUD - STEEL - 3/16" DIA. L=1⅞" AW
BEAM OR STIFFENER
STEEL STUD
1" UNFACED BOARD
1" FACED BD FOR 2" THER
OR
1" PERFORATED FACED BD FOR ACOUSTIC INSULATION
CAP (ALUM)

2" INSULATION	1" OR 2" INSULATION
FACED BOARD RATPROOFED DETAIL 5A-1	FACED BOARD NOT RATPROOFED DETAIL 5A-2

METHOD OF SECURING INSULATION TO STRUCTURE
FULL SIZE

LEGEND

SYMBOL			CONSTRUCTION	
1	2	3	4	5
Nº	OVHD	BHD	DETAIL	REMARKS
1	▨	≡	1"T – 2"T BATT – JOINER	JOINER SHEATHING BY OTHERS
2	▨		1"T – 2"T BATT – CRES-#16 GA	OVHD OF WEATHER EXPOSED MOORING STATIONS
3	▨	▬	1"T – 2"T FACED BD	
4	▨	■■■	1"T BATT – 2"T BATT – CRES OVHD #20GA, BHD #16GA	IN GALLEY SPACES
5				
6		✕✕✕✕✕	2"T FACED BD – 1"T FACED BD	MACH'Y CASINGS
7		═	2" FIRE – 4" FIRE – GALV.-#16GA.	A-60 FIRE
8		•••••	JOINER – JOINER – 2" ACOUSTIC BATT	
9	▨	▼▼▼	1"T – 2" ACOUS. PERF. BD. NOTE: INSTALL 1"T ONLY WHERE EXPOSED TO WEATHER.	
10		××××××	2" ACOUS BATT – JOINER SHEATHING	
11		– – – – –	CRES SHEATH - BHD #16GA.	UNINSULATED SURFACES IN COMMISSARY SPACES

LEGEND - CONT'D

12	▨		1"T – 2"T BATT – CRES #20GA	THAW SPACE

TABLE 1
RATROOFING REQUIREMENTS

FOR 2" THICK FIBROUS GLASS BOARD (CONSTRUCTIONS 3 & 9)

COLUMN A - RATPROOFED-DET.5A-1		COLUMN B - NOT RATPROOFED-DET.5A-2	
COMP'T.	LOCATION	COMP'T.	LOCATION
W.C.	NAV. BRIDGE	COFFERDAM VOID	96'-0" FLAT
BOSUN'S LKR	BRIDGE DK	ELECT. STORES & MAINT. SHOP	TWEEN DK(S) FRS 26-28
BATTERY LKR	↓ ↓		
ELECTRONIC SPARES	82'-0" FLAT (S)	MACH'Y CASING	CABIN DK (P)
BOSUN'S LKR	UPPER DK (P)	↓ ↓	↓ ↓ (S)
CREW LAUNDRY	MAIN DK (P) FRS 42-44	ELECT. STORES & ELEV. MAINT	CABIN DK (S) FRS 102-105
SLOP CHEST STORES	↓ ↓ ↓ ↓ 46-47		
LKR	MAIN DK (S) FRS 42-43		
OFFICER'S BAGGAGE	↓ ↓ ↓ ↓ 46-47	MACH'Y CASING	MAIN DK (P) FRS 50-52
ROPE LKR	MAIN DK (P) FRS 50-52	ELEV. SECURING STA.	UPPER DK(S) FRS 126-130
ROPE LKR	MAIN DK (P&S) FRS 109-112	BARGE POS. WINCH RM	
UNDER WATCHMAN STA	FRS 47-48½ (P&S)	ANCHOR WIND. HYD. MACH.	CABIN DK (P) FRS 20-23
DRY STORES & PASS	CABIN DK (P) FRS 26-29	FAN RMS	ALL
~~MOORING SPACE~~	~~MAIN DK (P&S) FRS 21-28~~	CO_2 RMS	CABIN DK FRS 90-96 (P)
TRANS. MAINT. SHOP	↓ ↓ (℄) FRS 28-34	BOW THRUSTER MACH'Y	CABIN DK FRS 20-23 (P)
ENGINEERS STORES	TWEEN DK (℄) FRS 28-34	BARGE TRANS. M.G. RM.	↓ ↓ ↓ 95-106 (P)
UNASSIGNED	CABIN DK (S) FRS 128-130	MACH'Y RM. STBD	126-128 (S)
PASSAGES	ALL LOCATIONS	BOW THRUSTER CONT. RM	TWEEN DK FRS 22-26½ (P)
ELEV. & STERN GATE O.S.	OPERATING FLAT FR 127-130		
LNGSHMANS TOILET	UPPER DK (S) FR 104		
CLERK'S OFFICE	↓ ↓ ↓ ↓ 106-107		
STAIRWAY	ALL LOCATIONS		
WATCHMAN'S STA.	MAIN DK P&S FRS 47-48½		
ENGINEERS STORES	LOWER DK (℄) FRS 22-28		

NOTE: 1" THK FIBROUS GLASS BD. IS NOT TO BE RATPROOFED IN ANY LOCATION

NOTE: ABOVE TABULATION APPLIES TO FIBROUS GLASS BOARD INSULATION WHICH IS NOT SHEATHED IN ANY INSTANCE. FIBROUS GLASS BATT INSULATION IS USED ONLY BEHIND JOINER OR METAL SHEATHING WHICH WILL BE RATPROOFED AS REQUIRED BY "HANDBOOK ON SANITATION OF VESSEL CONSTRUCTION"

LIST OF MATERIALS
TO MEET
U.S.C.G. REQUIREMENTS CG-257
AND
NAVIGATION & VESSEL INSPECTION CIRCULAR 4-67

MATERIALS	MANUFACTURER	USCG APPROVAL	COMMENTS
FIBROUS GLASS BOARD - UNFACED	JOHNS-MANVILLE	164.009/92/0	NOTE 1
FIBROUS GLASS BOARD - FACED	AVALLONE DIV.-E.C.S.	164.009/105/0 OR 164.009/113/0	
FIBROUS GLASS BOARD - 6# DEN.	BALDWIN, EHERT, HILL	164.007/18/0	NOTE 2
FIBROUS GLASS BOARD - PERFORAT'D	AVALLONE DIV.-E.C.S.	NOT C.G. APPROVED	NOTE 3
FIBROUS GLASS BATT	CERTAIN-TEED/ST.GOBAIN	164.009/16/1	NOTE 4
ADHESIVE	BENJAMIN FOSTER		NOTE 5
FIBROUS GLASS TAPE	J.P. STEVENS		NOTE 6
CHROMATED FELT GASKET	MINN. MINING & MFG.		NOTE 7
ALL METAL ITEMS	VARIOUS	164.009 ITEM 2	

NOTES
1. OWENS-CORNING MATERIAL, USCG APPROVAL NO. 164.009/87/0 MAY BE SUBSTITUTED
2. STRUCTURAL INSULATION
3. C.G. APPROVAL NOT REQ'D. PER 92.07-10 (d). THE USE OF THIS MATERIAL IS RESTRICTED TO WITHIN FAN RMS
4. THE FOLLOWING MAY BE SUBSTITUTED: JOHNS-MANVILLE 164.009/72/3, OWENS-CORNING 164.009/21/2, PPG INDUSTRIES 164.009/47/0
5. BENJ. FOSTER 81-42 OR BORDEN CHEM. E-1658-B BOTH CONFORM TO MIL-A-3316 CLASS I AND FIRE TEST OF PAR. 3.3 THEREIN.
6. FIBROUS GLASS TAPE MANUFACTURED BY BURLINGTON IND. MAY BE SUBSTITUTED. TAPE CONFORMS TO SPECIFICATION MIL-G-20079 AND ALSO CONFORMS TO FIRE TEST OF MIL-A-3316 CLASS I, PAR. 3.3.
7. USED ON EXTERIOR.

GENERAL NOTES

1. INSULATION MATERIAL SHALL BE FIBROUS GLASS, SPEC. 32-MA-3, CLASS 3, WHERE INSTALLED BEHIND JOINER OR METAL SHEATHING. (CONSTRUCTIONS 1, 2, 4, 5, 8 & 10) INSULATION MATERIAL WHICH IS NOT SHEATHED SHALL BE FIBROUS GLASS BOARD, SPEC. MIL-I-742C (INCOMBUSTIBLE) (CONSTRUCTIONS 3 & 6) OR PERFORATED FIBROUS GLASS BOARD MIL-A-23054 (CONSTRUCTION 9). SEAMS OF FIBROUS GLASS BOARD SHALL BE COVERED WITH FIBROUS GLASS TAPE, MIL-C-20079, SECURED WITH ADHESIVE, MIL-A-3316, CLASS 1.
2. METAL SHEATHING SHALL BE AS SHOWN IN THE LEGEND. CRES SHALL BE AISI 304, FINISH Nº 4. FRAMING SHALL BE M.S. EXCEPT AT THE DECK WHERE IT SHALL BE CRES. FASTENERS SHALL BE CRES SCREWS, #8 TRUSS HEAD, 3/4" LONG, TYPE A, SPACED 9" CTRS. ALL METAL SHEATHING SHALL BE RATPROOFED AS SHOWN IN THE U.S.P.H.S. MANUAL "HANDBOOK ON SANITATION OF VESSEL CONSTRUCTION".
3. INSULATION SHALL BE 2 INCHES THICK INSTALLED ON FLAT SURFACES ONLY, INTERCOSTAL WITH BEAMS & STIFFENERS, EXCEPT WHERE INSULATION IS SHOWN AROUND BEAMS & STIFFENERS IN THE LEGEND, IN WHICH CASE, THE INSULATION SHALL BE 1" THICK. ON BEAMS & STIFFENERS MORE THAN 12" DEEP, THE WEBS ONLY SHALL BE INSULATED TO 12". (EXCEPT FOR CONST. #7)
4. FIBROUS GLASS BOARD SHALL BE INSTALLED IN ACCORDANCE WITH DET. 5A-1 (RATPROOFED) IN THE SPACES LISTED IN TABLE 1, COL. A. IN SPACES LISTED IN COL. B, INSTALLATION SHALL BE IN ACCORDANCE WITH DET. 5A-2 (NOT RATPROOFED). REFERENCE: PAGE 49 "HANDBOOK ON SANITATION OF VESSEL CONST." FOR RATPROOFING OF BATT INSULATION (BEHIND SHEATHING) SEE NOTE IN TABLE 1.
5. PAINTING BEHIND INSULATION PER PAINTING SCHEDULE, BY OTHERS
6. IN LEGEND CONSTRUCTION #7, USE 6# DENSITY INSULATION TO CONFORM WITH U.S.C.G. REGULATION FOR A-60 FIRE BHD.
7. PAINTING OF STEEL WORK BEHIND INSULATION AND SHEATHING IS TO BE IN ACCORDANCE WITH SECT "E", SHT 5, SCHEME "Y" OF REF. 2

REFERENCES

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
2	PAINTING SCHEDULE	30261-01×1	241-519-1-1
1	THERMAL & ACOUSTIC INSULATION ARRGMT.	30575-10×1	241-539-1-01

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
3-B 11-A 2-A	A	1.1 REFERENCE 2 ADDED 1.2 GENERAL NOTE 7 ADDED 1.3 U.S.C.G. APPROVAL DATE ADDED AUTH: ITEMS 1.1 TO 1.3 ADDED TO AGREE WITH O/O LTR DATED 3 NOV. 1970, FILE NO.: 320A/S37/(15)/JNM/AND/RMS-56205	TC 1-15-71					
11-A 2-B 5-G 6-B 6-G 9 & 10		~~2.1 GENERAL NOTE 8 ADDED~~ 2.2 M.A. DWG NO. ADDED TO REF 1. 2.3 DETAIL 5-C, STUD SPACING MODIFIED TO SHOW A MAX. OF 6" TO THE EDGE OF THE INSULATION FOR FACED BD. 2.4 DETAILS 6-A & 6-C, INSULATION STUD ADDED TO FLANGE OF STIFFENER 2.5 ALL BUTTS, CORNERS AND JOINTS OF SHEATHING MODIFIED TO PROVIDE FOR SEALING. SECT 9-A & DETS. 10-A & 10-C MODIFIED. AUTH: ITEMS 2.2 TO 2.5 ADDED TO AGREE WITH J.J. HENRY LTR DTD 11 SEPT. 1970, FILE NO.: 5589/S39/JUM-420-70						
11-C 11-F		3.1 DETAILS 11-C & 11-F ADDED TO SHOW PERF. MARINE VENEER CEIL'G AUTH: TO CORRECT						

CONT'D IN PANEL 10

REVISIONS	O	A	B	C
TO		1/19/1	9/15/1	12/4/1
LYKES		1	1	1
M.A.(WASH)		1	1	1
M.A.(YARD)		1	1	1
J.J.HENRY(YARD)		1	1	1
J.J.HENRY(HOME)		1	2	2
ABS Y/D		1	1	1
USCG Y/D		1	1	1
USPHS				
871		5	9	6
872		2	–	
873				
874				
875				
876		1	–	
LIA BLDG 107		1	1	1
Bldg				1
				1
TOTAL NRO'S FS		16		
TOTAL NRO'S HS			18	16
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	1-26-1	800	4	
〃	B	8-11-1	820		
	B	9-13-1	826	12	
	C	2-3-1	829		
			830	2	
			841		
			842		
			843		
			844	5	
			899		
			LIBRARY	3	
		[illegible]	812	1	
		[illegible] LYKES	812	2	
			TOTAL	24	

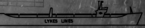
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED
C 12-27-72
C 11-15-73

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30575-10 X 2
E.C.S. NO. 791-2

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN E.C.S.
DSGNR
SUPV A.D. Sironi
ENGR

THERMAL & ACOUSTIC INSUL. AND SHEATHING DETAILS

APPROVED DATE 7/17/70
FOR GENERAL DYNAMICS QUINCY DIVISION

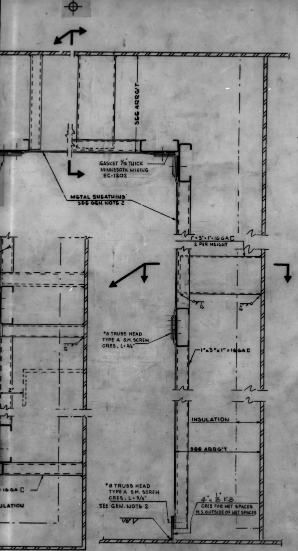
APPROVAL LTR DATED
ABS
USCG 6/30/70
USPHS 6/8/71

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S39-1-02	C

SCALE AS NOTED SHEET OF

AREA = SQ FT

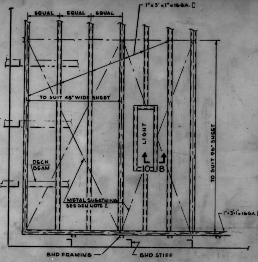
GENERAL DYNAMICS, QUINCY
MA NO.241-539-1-02 GD NO. 30575-10×2 FRAME 1 ②3 4
NOV, 1973 8X



SEE ARRG'T
GASKET 1/16" THICK MINNESOTA MINING EC-1202
METAL SHEATHING SEE GEN. NOTE 2
1"×3"×1"×16GA C 2 PER HEIGHT
#8 TRUSS HEAD TYPE A S.M. SCREW CRES, L=3/4"
1"×3"×1"×16GA C
INSULATION
SEE ARRG'T
#8 TRUSS HEAD TYPE A S.M. SCREW CRES, L=3/4" SEE GEN. NOTE 2
4"×1" F.B. CRES FOR WET SPACES M.S. OUTSIDE OF WET SPACES
1/8"
2"
16GA C
ULATION

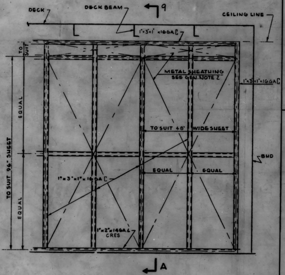
ONTAL SECTION

SECTION 9-A
TYPICAL SECTION OF BULKHEAD & OVERHEAD
SCALE: 6" = 1'-0"



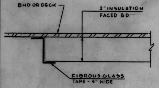
EQUAL
EQUAL
EQUAL
1"×3"×1"×16GA. C
TO SUIT 48" WIDE SHEET
LIGHT
10 B
TO SUIT 96" SHEET
DECK BEAM
METAL SHEATHING SEE GEN NOTE 2
1"×3"×1"×16GA C
BHD FRAMING
BHD STIFF

DETAIL 8-B
TYPICAL OVERHEAD FRAMING FOR METAL SHEATHING (REFLECTED PLAN VIEW)
SCALE: 1" = 1'-0"



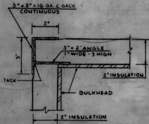
DECK
DECK BEAM
9
CEILING LINE
1"×3"×1"×16GA C
TO SUIT
METAL SHEATHING SEE GEN NOTE 2
1"×3"×1"×16GA C
TO SUIT 48" WIDE SHEET
BHD
EQUAL
EQUAL
1"×3"×1"×16GA C
TO SUIT 96" SHEET
EQUAL
EQUAL
1"×2"×16GA L CRES
A

DETAIL 8-A
TYPICAL BULKHEAD FRAMING FOR METAL SHEATHING
SCALE: 1" = 1'-0"



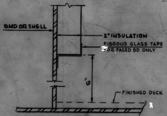
BHD OR DECK
2" INSULATION FACED BD.
FIBROUS GLASS TAPE - 4" WIDE

DETAIL 7-C
GENERAL METHOD OF ENDING FIBROUS GLASS BOARD INSULATION
SCALE: 6" = 1'-0"



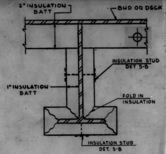
3"×2"×16 GA. L GALV. CONTINUOUS
2"
3"×2" ANGLE 1" WIDE - 3 HIGH
5"
TACK
2" INSULATION
BULKHEAD
2" INSULATION

DETAIL 7-B
PROTECTION OF FIBROUS GLASS BOARD INSULATION AT VERTICAL CORNERS
SCALE: 6" = 1'-0"



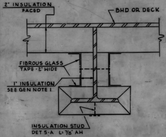
BHD OR SHELL
2" INSULATION
FIBROUS GLASS TAPE OR FACED BD. ONLY
6"
FINISHED DECK

DETAIL 7-A
ENDING OF INSULATION AT DECK
SCALE: 6" = 1'-0"



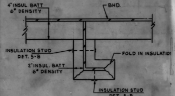
2" INSULATION BATT
BHD OR DECK
INSULATION STUD DET 5-B
1" INSULATION BATT
FOLD IN INSULATION
INSULATION STUD DET. 5-B

DETAIL 6-C
INSULATION ON WEBS AND FLANGES
SCALE 6" = 1'-0"



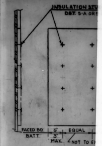
2" INSULATION FACED
BHD OR DECK
FIBROUS GLASS TAPE - 2" WIDE
1" INSULATION SEE GEN NOTE 1.
INSULATION STUD DET 5-A L= 7/8" AW

DETAIL 6-B
INSULATION ON WEBS AND FLANGES
SCALE: 6" = 1'-0"



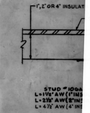
4" INSUL BATT 6# DENSITY
BHD.
INSULATION STUD DET. 5-B
FOLD IN INSULATION
2" INSUL. BATT 6# DENSITY
INSULATION STUD DET. 5-B

DETAIL 6-A
FIRE ZONE INSULATION
SCALE: NONE
(CONSTRUCTION 7 IN LEGEND)



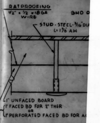
INSULATION STUD DET. 5-A OR
FACED BD. BATT.
6" MAX.
3"
EQUAL
NOT TO E

DETAI
STUD SPA
TYPICAL - ALL
NO SCA



1",2" OR 4" INSULAT
STUD #10GA
L=1½" AW (1" INS
L=2½" AW (2" INS
L=4½" AW (4" INS

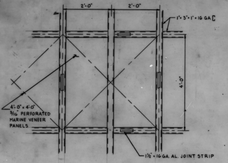
DET
METHOD OF SECU
TO STR



RATPROOFING 1/2"×1/2"×18GA WIRE
BHD O
STUD-STEEL-3/16" DIA L=1 7/8 AW
1" UNFACED BOARD
1" FACED BD FOR 2" THER OR
1" PERFORATED FACED BD FOR A

2" INSULATION
FACED BOARD
RATPROOFED
DETAIL 5A-1
METHOD OF SECU
TO STR
FULL

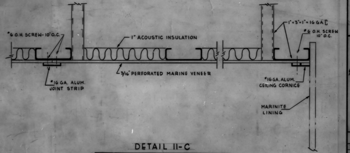
241-S39-1-02 C 2


2'-0"
2'-0"
1"×3"×1"×16 GA [
4'-0"
4'-0"×4'-0" 3/16" PERFORATED MARINE VENEER PANELS
1½"×16 GA. AL. JOINT STRIP

DETAIL 11-F

TYPICAL OVERHEAD FRAMING FOR PERFORATED MARINE VENEER SHEATHING (REFLECTED PLAN VIEW)

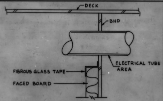
SCALE: 1" = 1'-0"


#6 O.H. SCREW-10" O.C.
1" ACOUSTIC INSULATION
1"×3"×1"×16 GA [
#6 O.H. SCREW 10" O.C.
3/16" PERFORATED MARINE VENEER
#16 GA. ALUM. JOINT STRIP
#16 GA. ALUM. CEILING CORNICE
MARINITE LINING

DETAIL 11-C

TYPICAL OVERHEAD SECTION FOR PERFORATED MARINE VENEER SHEATHING

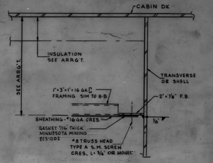
SCALE: 6" = 1'-0"


DECK
BHD
ELECTRICAL TUBE AREA
FIBROUS GLASS TAPE
FACED BOARD

DETAIL 11-A

TYPICAL METHOD OF ENDING INSULATION IN WAY OF ELECTRICAL TUBE AREA

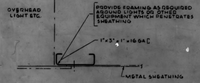
SCALE: NONE


CABIN DK
INSULATION SEE ARRG'T.
SEE ARRG'T.
TRANSVERSE OR SHELL
1"×3"×1"×16 GA [FRAMING SIM TO 8-B
2"×1/8" F.B.
SHEATHING-#16 GA. CRES.
1/8"
GASKET 1/16" THICK MINNESOTA MINING ECS-1202
#8 TRUSS HEAD TYPE A S.M. SCREW CRES, L=3/4" OR MONEL

DETAIL 10-C

INSULATION & SHEATHING EXPOSED TO WEATHER

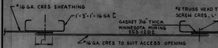
SCALE: 6" = 1'-0"


OVERHEAD LIGHT ETC.
PROVIDE FRAMING AS REQUIRED AROUND LIGHTS OR OTHER EQUIPMENT WHICH PENETRATES SHEATHING
1"×3"×1"×16 GA [
METAL SHEATHING

DETAIL 10-B

FRAMING IN WAY OF LIGHTS ETC.

SCALE: 6" = 1'-0"

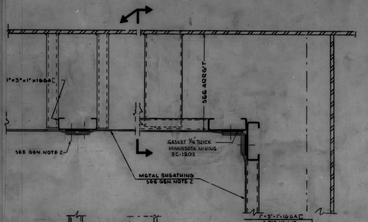

#16 GA. CRES SHEATHING
1"×3"×1"×16 GA [
GASKET 1/16" THICK MINNESOTA MINING ECS-1202
#8 TRUSS HEAD TYPE A S.M. SCREW CRES, L=3/4"
#16 GA. CRES TO SUIT ACCESS OPENING

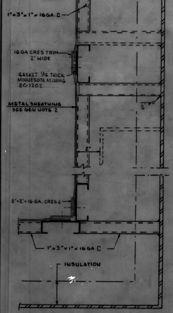
DETAIL 10-A

ACCESS OPENINGS

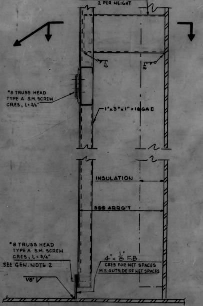
SCALE: NONE

REVISIONS - CONT'D.			Qdiv		OWNER			
ZONE	LTR	DESCRIPTION	DATE	APPD	DATE	APPD	DATE	APPD
3-B	B	1. GEN. NOTE #4 MODIFIED FOR CLARITY	8/26/71 A.J.V.				Sep 1971	
4-A, 3-E		2. LEGEND: CONST #12 RELOCATED TO PANEL #3						
4A, 4-B 4-C		3. TABLE 1: RAT PROOFING REQUIREMENTS MODIFIED AND NOTE ADDED AUTH: 1. TO AGREE WITH DEPT. OF H.E.&W. LTR OF JUNE 8, 1971 2. TO AGREE WITH ALT B OF REF. 1						
11-B, 3-B		4. GEN. NOTE #7 RELOCATED TO PANEL 2 FOR CLARITY						
5-G		5. DET. 5-C: DISTANCE OF STUD FROM EDGE OF INSULATION CHANGED FROM 3" MAX. TO 6" MAX. AUTH: AEA Nº S-0553 DATED 6/8/71						
9-B		6. SECT. 9-A: ADDED NOTE FOR 4"×1/8" F.B. SHOWING CRES FOR WET SPACES AND M.S. FOR OTHER SPACES. AUTH: AEA Nº S-0554 DATED 6/8/71						
11-A		7. DET. 11-A ADDED INDICATING THE METHOD OF FINISHING INSULATION ABOUT A TUBE AREA. AUTH: G/D LTR FILE Nº 320/A/S37/(15)/SJG/AND/RR-56745 DATED 13 MAY 71						
2-A		8. U.S.P.H.S. APPROVAL DATE ADDED						
		9. MARKINGS FOR MICROFILMING ADDED						
7A-10A	C	1 - MICROFLIM MARKINGS MODIFIED. AUTHORITY: IRM S-0429 DATED AUG. 25-71 WHICH INCLUDES THE APPROVAL OF REV. B	11/ /71 A.J.V.				2 Dec 1971	
4C-D-G-H		2. LEGEND REVISED TO AGREE ITEMS 5&6 REV. C OF REF. #1						


1"×3"×1"×16 GA [
SEE ARRG'T
SEE GEN NOTE 2
GASKET 1/16" THICK MINNESOTA MINING EC-1202
METAL SHEATHING SEE GEN. NOTE 2


1"×3"×1"×16 GA. [
16 GA CRES TRIM 2" WIDE
GASKET 1/16 THICK MINNESOTA MINING EC-1202
METAL SHEATHING SEE GEN NOTE 2
1/16"
2"
2"×2"×16 GA. CRES ∠
1"×3"×1"×16 GA [
INSULATION

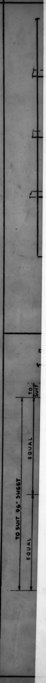
HORIZONTAL SECTION


1"×3"×1"×16 GA [2 PER HEIGHT
1/16"
#8 TRUSS HEAD TYPE A S.M. SCREW CRES, L=3/4"
1"×3"×1"×16 GA [
INSULATION
SEE ARRG'T
#8 TRUSS HEAD TYPE A S.M. SCREW CRES, L=3/4"
SEE GEN. NOTE 2
1/8"
4"×1/8" F.B. CRES FOR WET SPACES M.S. OUTSIDE OF WET SPACES

SECTION 9-A

TYPICAL SECTION OF BULKHEAD & OVERHEAD

SCALE: 6" = 1'-0"

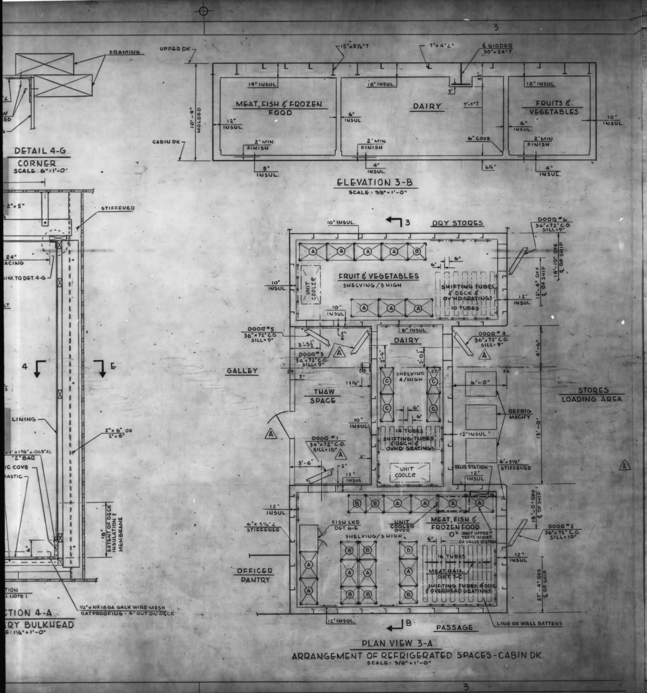

TO SUIT
EQUAL
EQUAL
TO SUIT 9'6" SHEET

11 | 241-539-1-02 | C | 3

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

MA NO. 241-539-1-02 GD NO. 30575-10x2 FRAME 1 2 ③ 4

GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO.241-539-01-04 GD NO. 30575-10x4 FRAME ① 2 3 4



3
FRAMING
UPPER DK
15"x5½"T
7"x4"L
℄ GIRDER 30"x24"T
19" INSUL.
18" INSUL.
18" INSUL.
MEAT, FISH & FROZEN FOOD
DAIRY
FRUITS & VEGETABLES
10'-9" MOLDED
12" INSUL.
6" INSUL.
7'-5"±
6" INSUL.
10" INSUL.
CABIN DK
2" MIN. FINISH
6" COVE
5" INSUL.
4" INSUL.
6½"
4" INSUL.
ELEVATION 3-B
SCALE: 3/8"=1'-0"
DETAIL 4-G
CORNER
SCALE: 6"=1'-0"
2"x5"
STIFFENER
24"
DIM. TO DET. 4-G
4
E
LINING
2"x6" OR 2"x8"
"Z" BAR
MASTIC
18" EXTENT OF DECK INSULATION & MEMBRANE
½"x Nº18 GA GALV. WIRE MESH RATPROOFING - 4" OUT ON DECK
CTION 4-A
ARY BULKHEAD
1½"=1'-0"
10" INSUL.
3
DRY STORES
DOOR #6 36"x72" C.O. SILL=9"
14'-10" OFF ℄ OF SHIP
FRUIT & VEGETABLES
SHELVING/3 HIGH
UNIT COOLER
SHIFTING TUBES & DECK & OV'HD GRATINGS
10 TUBES
12'-4" OFF ℄ OF SHIP
12" INSUL.
10" INSUL.
DOOR #5 36"x72" C.O. SILL=9"
DOOR #3 36"x72" C.O. SILL=9"
6" INSUL.
DAIRY
SHELVING 4/HIGH
DOOR #4 36"x72" C.O. SILL=9"
4'-6"
GALLEY
THAW SPACE
14 TUBES
SHIFTING TUBES & DECK & OVHD GRATINGS
UNIT COOLER
DOOR #1 36"x72" C.O. SILL=10"
REFRIG MACHY
6'-0"
13'-0"
12" INSUL.
STORES LOADING AREA
VALVE STATION
6"x3½" STIFFENER
12" INSUL.
18'-0" OFF ℄ OF SHIP
FISH LKR DET. 6-6
UNIT COOLER OVER
MEAT, FISH & FROZEN FOOD
0°
OMIT UPPER TRAYS IN WAY OF VALVE STATION
SHELVING/3 HIGH
16 TUBES
MEAT RAIL DET. 7-C
SHIFTING TUBES & DECK & OVERHEAD GRATINGS
DOOR #2 36"x72" C.O. SILL=10"
27'-4" OFF ℄ OF SHIP
OFFICER PANTRY
12" INSUL.
B
PASSAGE
LINE OF WALL BATTENS

PLAN VIEW 3-A
ARRANGEMENT OF REFRIGERATED SPACES - CABIN DK
SCALE: 3/8"=1'-0"

GENERAL NOTES

1. INSULATION FOR BULKHEADS AND OVERHEADS TO BE FIBROUS GLASS, SPEC. 32 MA 3, CLASS 3, 1# DENSITY; FOR DECKS AND 18" ABOVE DECKS IT SHALL BE URETHANE, SPEC. 32 MA 4 TYPE I, CLASS 2, NOM. 2# DENSITY.
2. LINING FOR BULKHEADS AND OVERHEADS TO BE ALUMINUM SHEET 5052-H34, 0.081" THICK FOR BHDS AND 0.051" THICK FOR OVERHEADS. JOINT STRIPS TO BE ALUMINUM, AS SHOWN, ON BHDS; SEAMS ON OVERHEADS TO BE LAPPED. FASTENINGS TO SECURE ALUMINUM TO BE CORROSION RESISTING STEEL. SHEATHING ON DECK TO BE AS SHOWN. COLOR OF LATEX MASTIC TO BE RED.
3. LUMBER TO BE SELECT MERCHANTABLE SPRUCE WCLA PRESSURE TREATED IN ACCORDANCE WITH FED. SPEC. TT-W-571 WITH WOLMAN SALTS (TANALITH) TO A MINIMUM RETENTION OF ONE HALF POUND PER CUBIC FOOT.
4. RATPROOFING SHOWN ON THIS DRAWING IS IN ACCORDANCE WITH THE REQUIREMENTS OF U.S. PUBLIC HEALTH "HANDBOOK ON SANITATION OF VESSEL CONSTRUCTION" AND IT'S MANUAL "RATPROOFING OF SHIPS".
5. STEEL STRUCTURE BEHIND INSULATION SHALL BE COATED WITH FLINTKOTE Nº C-13-HPC.
6. ALL CRES ITEMS SHALL CONFORM TO SPEC. AISI-304 (#4 FINISH) AND ALUMINUM TO SPEC. QQ-S-250/8b.
7. PENETRATIONS INTO THE REFRIGERATED SPACES SHALL BE FITTED WITH COLLARS WELDED WATERTIGHT TO THE OUTER STEEL BULKHEADS OR EQUIVALENT STUFFING TUBES (BY OTHERS).
8. ALL BOLTS & NUTS TO BE HOT DIPPED GALVANIZED.

WEIGHTS AND LEVERS

GOV'T GROUP NO.	WEIGHT POUNDS	VERT. LEVER FT ABL	FWD LEVER FT FROM MP	AFT LEVER FT FROM MP	PORT LEVER FT FROM CL	STBD LEVER FT FROM CL
	56,476	631-9"	282.0			9.42

E.C.S. DWG. Nº 791-4

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
1.	REFRIGERATED SPACES - DOORS	30575 10x5	241-539-01-05

REFERENCES

P.O. U-123-301

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
1 2 3 7 1 3 3 3 3	A	1. MARAD DWG # CORRECTED. 2. GEN'L NOTE # 6 REVISED. 3. DOOR TO THAW SPACE INDICATED 4. SECT. A-A DELETED TYPE & FINISH OF CRES. 5. APPROVAL DATES ADDED. AUTHORITY: J.J. HENRY LTR. FILE # 5589/S-44/JUM-533-70 OF 12-8-70 6. DOORS 1, 3, 4 & 5 SIZE & LOCATION TO SUIT PLASTIC DOORS PER OWNER'S VERBAL APPROVAL. 7. PROVIDED ACCESS TO PIPING STA IN MEAT ROOM. DESIGN DEVL. 8. SIZE & LOC. OF UNIT COOLERS IN FRUIT, VEG & DAIRY COMPTS MOD. DESIGN DEVL. 9. LOC. OF SHEATHING ON PORT BHD OF THAW SPACE CHGD FROM 2" TO 3¼" TO CLEAR FRAME OF DOOR #3 DESIGN DEVL.	3/5/71					

REVISIONS	O'	A	B	C
TO	11/19/0	2/3/1		
LYKES	1	1		
M.A.(WASH)	1	1		
M.A.(YARD)	1	1		
J.J.HENRY(YARD)	1	1		
J.J.HENRY(HOME)	1	1		
ABS	1	1		
USCG	1	1		
USPHS	1	—		
871	5	5		
872	2	2		
873				
874				
875				
876	1	1		
TPS 866	1			
LIA 868	2	1		
TOTAL NRO'S FS	19	16		
TOTAL NRO'S HS				
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
	O	9-20	800	4	
			820		
			826	12	
			829		
			830		
			841		
			842		
			843	1	
			844	5	
			899		
			LIBRARY	3	
		DRW. 814		1	
		LAURIE 812		1	
			TOTAL	37	

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO.
30575-10x4

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN E.C.S.
DSGNR
SUPV
ENGR

REFRIGERATED SPACES
ARRANGEMENT & DETAILS

APPROVED DATE 11/10/70
FOR GENERAL DYNAMICS QUINCY DIVISION

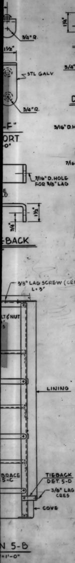
APPROVAL LTR DATED
ABS N.R.
USCG 9-14-70
USPHS 12-5-69

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-539-01-04	A

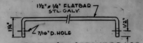
SCALE: AS SHOWN SHEET 1 OF 1

DWG. NO.

GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO. 241-539-01-04 GD NO. 30575-10x4
FRAME 1 ② 3 4



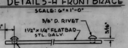
3/4" R.
1 1/2"
STL GALV.
3/4" R.
-F"
ORT
-0"
7/16" D. HOLE FOR 3/8" LAG
-BACK
3/8" LAG SCREW (CRES) L=3"
LT & NUT
LINING
TIEBACK DET. 5-D
BRACE 5-C
3/8" LAG CRES
COVE
N 5-B
=1'-0"



1 1/2" × 1/4" FLATBAR STL. GALV.
7/16" D. HOLE
1/2"

DETAIL "5-H" FRONT BRACE

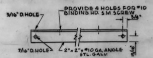
SCALE: 6" = 1'-0"



3/8" D. RIVET
1 1/2" × 1/4" FLATBAR STL. GALV.
3/4"
3/16"
WELD & GRIND SMOOTH

DETAIL "5-G" PORTABLE BATTEN

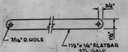
SCALE: 6" = 1'-0"



3/16" D. HOLE
PROVIDE 4 HOLES FOR #10 BINDING HD. SM SCREW
3/4"
7/16" D. HOLE
2" × 2" × #10 GA. ANGLE STL. GALV.

DETAIL "5-E" OVERHEAD BRACE

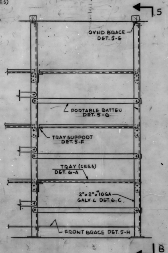
SCALE: 3" = 1'-0"



3/4"
7/16" D. HOLE
1 1/2" × 1/4" FLATBAR STL GALV.
1/2"

DETAIL "5-C" SIDE BRACE

SCALE: 3" = 1'-0"



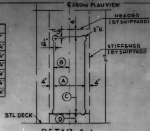
5
OVHD BRACE DET. 5-E
PORTABLE BATTEN DET. 5-G
TRAY SUPPORT DET. 5-F
TRAY (CRES) DET. 6-A
2" × 2" × 10 GA. GALV. ∠ DET. 6-C
FRONT BRACE DET. 5-H
B

DETAIL 5-A
ELEVATION OF SHELVING

SCALE: 1 1/2" = 1'-0"

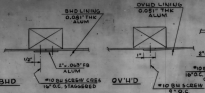
Nº	COMPARTMENT	DIMENSIONS			
		"A"	"B"	"C"	"D"
1	MEAT, FISH & FROZEN FOOD	43"	21 1/2"	75 1/2"	8 1/4"
2	MEAT, FISH & FROZEN FOOD	39"	19 1/2"	75 1/2"	8 1/4"
3	DAIRY	38"	19"	75 1/2"	7 1/4"
4	DAIRY	42"	21"	75 1/2"	7 1/4"
5	FRUIT & VEGETABLES	42"	21"	75 1/2"	7 1/4"
6	FRUIT & VEGETABLES	39"	19 1/2"	75 1/2"	7 1/4"

DOOR CUT SCHEDULE



℄ FROM PLAN VIEW
HEADER (BY SHIPYARD)
2" R.
STIFFENER (BY SHIPYARD)
4"
1 1/2"
B
A
C
D
4"
4"
STL DECK

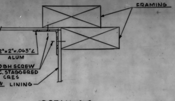
DETAIL 4-J
DOOR CUT



BHD LINING 0.081" THK ALUM
OVHD LINING 0.051" THK ALUM
1/2"
2" × .063" FB ALUM
1"
#10 BH SCREW CRES 16" O.C. STAGGERED
#10 BH SCREW 9" O.C. CRES
BHD
OV'H'D

DETAIL 4-H
JOINT IN SHEATHING

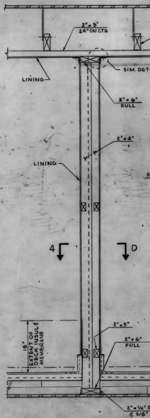
FULL SIZE



FRAMING
2" × 2" × .063" ∠ ALUM
#10 BH SCREW 16" O.C. STAGGERED CRES
LINING

DETAIL 4-G
CORNER

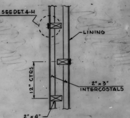
SCALE: 6" = 1'-0"



2" × 3" 24" ON CTR
2" × 5"
LINING
SIM. DET. 4-G
2" × 6" FULL
2" × 4"
LINING
4
D
18" EXTENT OF DECK INSUL & MEMBRANE
2" × 3"
2" × 6" FULL
2" × 1/4" FB 12" O.C. (STAGGERED) & 3/8" GALV LAG SCREW L = 3"

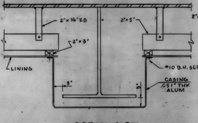
SECTION 4-C
PARTITION BULKHEAD

SCALE: 1 1/2" = 1'-0"



SEE DET. 4-H
LINING
12" CTRS
2" × 3" INTERCOSTALS
2" × 4"

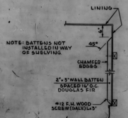
SECTION 4-D



2" × 1/4" FB
2" × 5"
2" × 3"
LINING
#10 B.H. SCREW
3"
3"
CASING .051" THK ALUM

DETAIL 4-F
GIRDER CASING

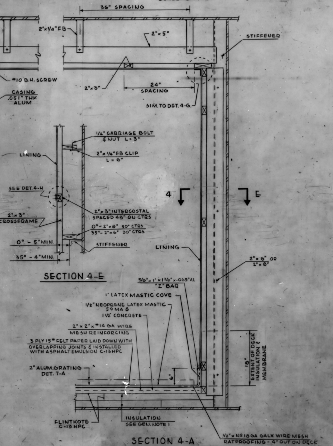
SCALE: 1 1/2" = 1'-0"



LINING
NOTE: BATTENS NOT INSTALLED IN WAY OF SHELVING.
45°
CHAMFER EDGES
2" × 3" WALL BATTEN SPACED 16" O.C. DOUGLAS FIR
#12 F.H. WOOD SCREW (GALV.) L = 3"

DETAIL 4-B
WALL BATTEN

NO SCALE

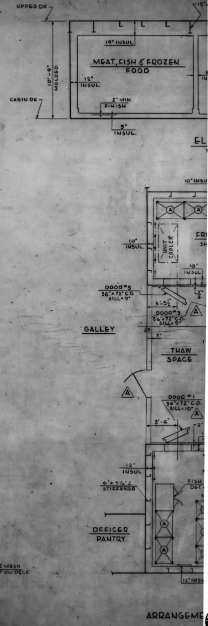


36" SPACING
2" × 1/4" FB
2" × 5"
STIFFENER
2" × 3"
24" SPACING
SIM. TO DET. 4-G.
1/2" CARRIAGE BOLT & NUT L = 3"
2" × 1/4" FB CLIP L = 6"
LINING
SEE DET. 4-H
2" × 3" INTERCOSTAL SPACED 48" ON CTRS
2" × 3" CROSSFRAME
0° - 2" × 8" 30" CTRS
35° - 2" × 6" 30" CTRS
0° - 5" MIN.
35° - 4" MIN.
STIFFENER
4
E
LINING
2" × 6" OR 2" × 8"
5/8" × 1" × 1 3/8" × .063" AL "Z" BAR
1" LATEX MASTIC COVE
1/2" NEOPRENE LATEX MASTIC 59 MA 8
1 1/2" CONCRETE
2" × 2" × #14 GA WIRE MESH REINFORCING
3 PLY 15# FELT PAPER LAID DOWN WITH OVERLAPPING JOINTS & INSTALLED WITH ASPHALT EMULSION C-13 HPC
2" ALUM. GRATING DET. 7-A
6"
18" EXTENT OF DECK INSULATION & MEMBRANE
FLINTKOTE C-13 HPC
INSULATION SEE GEN. NOTE 1
1/2" × Nº 18 GA GALV. WIRE MESH RATPROOFING - 4" OUT ON DECK

SECTION 4-E

SECTION 4-A
BOUNDARY BULKHEAD

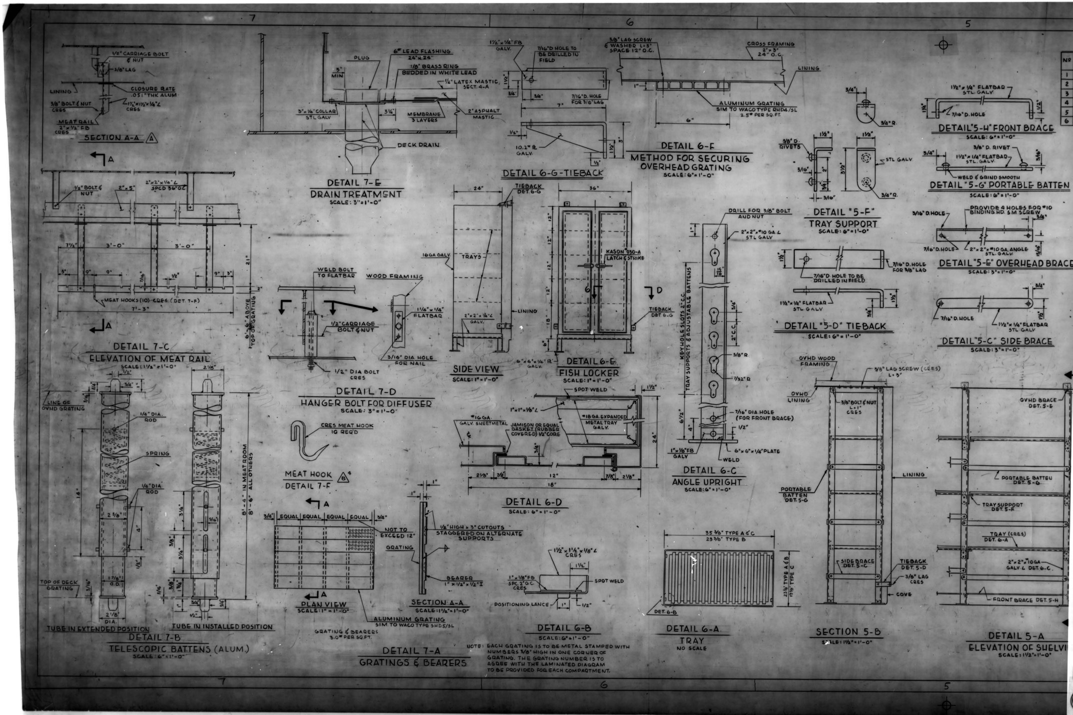
SCALE: 1 1/2" = 1'-0"



UPPER DK
15"
19" INSUL.
MEAT, FISH & FROZEN FOOD
10'-9" MOLDED
12" INSUL.
CABIN DK
2" MIN. FINISH
5" INSUL.
EL
10" INSU
UNIT COOLER
10" INSUL.
FR
SH
10" INSUL
DOOR #5 36" × 72" C.O. SILL = 9"
3'-3 1/2"
3/4
A
DOOR #3 36" × 72" C.O. SILL = 9"
GALLEY
29
7"
THAW SPACE
A
DOOR #1 36" × 72" C.O. SILL = 10"
A
3'-6"
2"
12" INSUL.
6" × 3 1/2" ∠ STIFFENER
FISH DET.
OFFICER PANTRY
12" INSU

ARRANGEME

GENERAL DYNAMICS, QUINCY JAN., 1974 8X
MA NO. 241-539-01-04 GD NO. 30575-10x4
FRAME 1 2 ③ 4


7
6
5
SECTION A-A
1/2" CARRIAGE BOLT & NUT
3/8" LAG
LINING
CLOSURE PLATE .051" THK ALUM
3/8" BOLT & NUT CRES
1 1/2"x1 1/2"x1/8" L CRES
MEAT RAIL 2"x1/2" FB CRES
1/2" BOLT & NUT
2"x5"
2"x2"x1/4" L SPCD 36" O.C.
7 1/2"
3'-0"
3'-0"
3"
9"
9"
7/16"
1/2"
9"
3"
MEAT HOOKS (10) CRES (DET. 7-F)
7'-3"
21"
6'-6" ABOVE TOP OF GRATING
DETAIL 7-C
ELEVATION OF MEAT RAIL
SCALE: 1 1/2"=1'-0"
PLUG
3" MIN
6" LEAD FLASHING 24"x24"
1/8" BRASS RING BEDDED IN WHITE LEAD
1/4" LATEX MASTIC, SECT. 4-A
3"x1/4" COLLAR STL GALV
3 1/4"
MEMBRANE 3 LAYERS
2" ASPHALT MASTIC
DECK DRAIN
DETAIL 7-E
DRAIN TREATMENT
SCALE: 3"=1'-0"
1 1/2"x1/4" FB GALV.
7/16"D HOLE TO BE DRILLED IN FIELD
1 1/2"
3/4"
3/4"
7"
7/16"D. HOLE FOR 3/8" LAG
1/2"
10.2" R GALV.
3"
1 1/2"
1/2"
DETAIL 6-G-TIEBACK
3/8" LAG SCREW & WASHER L=3" SPACE 12" O.C.
CROSS FRAMING 2"x3" 24" O.C.
LINING
1"
ALUMINUM GRATING SIM TO WACO TYPE RHD4/5L 2.5# PER SQ.FT.
6"
DETAIL 6-F
METHOD FOR SECURING OVERHEAD GRATING
SCALE: 6"=1'-0"
3/4"
3/4" R.
3/8" D. RIVETS
1 1/2"
1 1/2"
3 1/2"
STL GALV.
3/16"
3/4" R.
3/16"
DETAIL "5-F"
TRAY SUPPORT
SCALE: 6"=1'-0"
1 1/2"x1/4" FLATBAR STL GALV.
7/16" D. HOLE
DETAIL "5-H" FRONT BRACE
SCALE: 6"=1'-0"
3/8" D. RIVET
1 1/2"x1/4" FLATBAR STL. GALV.
WELD & GRIND SMOOTH
DETAIL "5-G" PORTABLE BATTEN
SCALE: 6"=1'-0"
3/16" D. HOLE
PROVIDE 4 HOLES FOR #10 BINDING HD. S.M. SCREW
7/16" D. HOLE
2"x2"x#10 GA. ANGLE STL. GALV.
DETAIL "5-E" OVERHEAD BRACE
SCALE: 3"=1'-0"
7/16" D. HOLE FOR 3/8" LAG
7/16" D. HOLE TO BE DRILLED IN FIELD
1 1/2"x1/4" FLATBAR STL GALV
DETAIL "5-D" TIEBACK
SCALE: 6"=1'-0"
7/16" D. HOLE
1 1/2"x1/4" FLATBAR STL GALV
DETAIL "5-C" SIDE BRACE
SCALE: 3"=1'-0"
24"
TIEBACK DET. 6-G
36"
16GA GALV.
TRAYS
LINING
2"x2"x1/4" L GALV.
SIDE VIEW
SCALE: 1"=1'-0"
12"
12"
12"
12"
18"
6"
KASON 930-A LATCH & STRIKE
TIEBACK DET 6-G
6"x6"x1/4" R GALV.
DETAIL 6-E
FISH LOCKER
SCALE: 1"=1'-0"
DRILL FOR 3/8" BOLT AND NUT
2"x2"x#10 GA. L STL GALV
KEYHOLE SLOTS 2" C.C. TRAY SUPPORTS & ADJUSTABLE BATTENS
15/16"
3/4"
2" C.C.
3/8" R
7/32" R
7/16" DIA. HOLE (FOR FRONT BRACE)
1/2"
6 1/2"
4"
1"x1/8" FB GALV
6"x6"x1/4" PLATE
WELD
DETAIL 6-C
ANGLE UPRIGHT
SCALE: 6"=1'-0"
WELD BOLT TO FLATBAR
WOOD FRAMING
1 1/4"x1/4" FLATBAR
1/2" CARRIAGE BOLT & NUT
3/16" DIA. HOLE FOR NAIL
1/2" DIA BOLT CRES
DETAIL 7-D
HANGER BOLT FOR DIFFUSER
SCALE: 3"=1'-0"
CRES MEAT HOOK 10 REQ'D
MEAT HOOK
DETAIL 7-F
SPOT WELD
1"x1"x1/8" L
#16 GA. GALV. SHEETMETAL
JAMISON OR EQUAL GASKET (RUBBER COVERED) 1/2" CORE
#18 GA. EXPANDED METAL TRAY GALV.
1 1/2"
24"
3/4"
2 1/8"
7/8"
12"
7/8"
2 1/8"
18"
DETAIL 6-D
SCALE: 6"=1'-0"
LINE OF OVHD GRATING
1/4" DIA. ROD
SPRING
1/4" DIA ROD
2 3/8"
4"
1/2"
1 7/8" O.D.
2 1/8" DIA.
TOP OF DECK GRATING
14"
8'-4" IN MEAT ROOM 8'-6" ALL OTHERS
TUBE IN EXTENDED POSITION
TUBE IN INSTALLED POSITION
DETAIL 7-B
TELESCOPIC BATTENS (ALUM.)
SCALE: 6"=1'-0"
3/4"
EQUAL
EQUAL
EQUAL
EQUAL
3/4"
NOT TO EXCEED 12"
PLAN VIEW
SCALE: 1"=1'-0"
ALUMINUM GRATING SIM. TO WACO TYPE SHD5/5L
GRATING & BEARERS 3.0# PER SQ.FT.
1"
1"
1/2" HIGH x 3" CUTOUTS STAGGERED ON ALTERNATE SUPPORTS
GRATING
BEARER 1"x1/2"x1/2" I
SECTION A-A
SCALE: 1 1/2"=1'-0"
DETAIL 7-A
GRATINGS & BEARERS
1 1/2"x1 1/2"x1/8" L CRES
1 1/2"
1"x1/8" FB SPC. 2" O.C. CRES
SPOT WELD
POSITIONING LANCE
1"
1/2"
DETAIL 6-B
SCALE: 6"=1'-0"
35 3/8" TYPE A & C
23 3/8" TYPE B
23 3/8" TYPE A & B
17 1/8" TYPE C
DET. 6-B
DETAIL 6-A
TRAY
NO SCALE
OVHD WOOD FRAMING
3/8" LAG SCREW (CRES) L=3"
OVHD LINING
3/8" BOLT & NUT L=1" CRES
LINING
PORTABLE BATTEN DET. 5-G
SIDE BRACE DET. 5-C
TIEBACK DET. 5-D
3/8" LAG CRES
COVE
SECTION 5-B
SCALE: 1 1/2"=1'-0"
OVHD BRACE DET. 5-E
PORTABLE BATTEN DET. 5-G
TRAY SUPPORT DET. 5-F
TRAY (CRES) DET. 6-A
2"x2"x#10 GA. GALV. L DET. 6-C
FRONT BRACE DET. 5-H
DETAIL 5-A
ELEVATION OF SHELVI
SCALE: 1 1/2"=1'-0"
NO

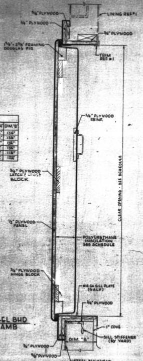
NOTE: EACH GRATING IS TO BE METAL STAMPED WITH NUMBERS 3/8" HIGH IN ONE CORNER OF GRATING. THE GRATING NUMBER IS TO AGREE WITH THE LAMINATED DIAGRAM TO BE PROVIDED FOR EACH COMPARTMENT.

GENERAL DYNAMICS, QUINCY NOV, 1973 10X
MA NO.241-539-01-05 GD NO. 30575-10x5 FRAME ① 2 3 4

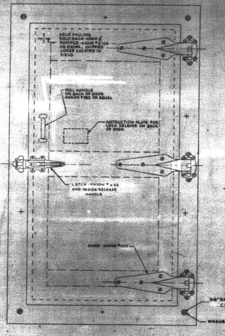
DOOR SCHEDULE							
NR	LOCATION	SWING	CLEAR OPENING HEIGHT	CLEAR OPENING WIDTH	INSULATION THICKNESS	DIM."A"	DIM."B"
1	MEAT, FISH AND FROZEN FOOD	R.H.	72"	36"	6"	12¼"	13¼"
2	MEAT FISH AND FROZEN FOOD	L.H.	72"	36"	6"	12¼"	13¼"
3	DAIRY	L.H.	72"	36"	4"	10¼"	13¼"
4	DAIRY	R.H.	72"	36"	4"	12¼"	13¼"
5	FRUIT & VEGETABLES	L.H.	72"	36"	4"	10¼"	11¼"
6	FRUIT & VEGETABLES	L.H.	72"	36"	4"	12¼"	13¼"

EMERGENCY LOCK RELEASE
TO RELEASE DOOR
PUSH HANDLE DOWN
TO RELEASE
STRIKE

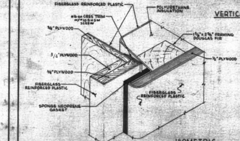
INSTRUCTION PLATE


5/8" PLYWOOD
3/4" PLYWOOD
LINING REF #1
3/4" PLYWOOD
1⅝" x 2⅝" FRAMING DOUGLAS FIR
TRIM REF #1
3/4" PLYWOOD REINF.
3/4" PLYWOOD LATCH & HINGE BLOCK
CLEAR OPENING - SEE SCHEDULE
1/2" PLYWOOD PANEL
POLYURETHANE INSULATION SEE SCHEDULE
3/4" PLYWOOD HINGE BLOCK
#14 GA SILL PLATE (GALV)
3/4" PLYWOOD
STEEL BHD JAMB
1" COVE
SILL STIFFENER (BY YARD)
DIM. "B"
3/4" PLYWOOD
5/8" PLYWOOD
STEEL BULKHEAD

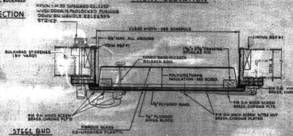
VERTICAL SECTION


SELF FALLING HOLD BACK HOOK & BUMPER - KASON #5104 OR EQUAL, SHIPPED LOOSE LOCATED IN FIELD
PULL HANDLE ON BACK OF DOOR KASON #382 OR EQUAL
INSTRUCTION PLATE FOR LOCK RELEASE ON BACK OF DOOR.
LATCH - KASON #K48 AND INSIDE RELEASE HANDLE
HINGE - KASON #1055
3/8" BOLT & NUT L=3" CRES
WASHER

FRONT ELEVATION


FIBERGLASS REINFORCED PLASTIC
POLYURETHANE INSULATION
#16 GA CRES TRIM W/#10 RHSM SCREW
3/4" PLYWOOD
1⅝" x 2⅝" FRAMING DOUGLAS FIR
3/4" PLYWOOD
1/2" PLYWOOD
3/4" PLYWOOD
FIBERGLASS REINFORCED PLASTIC
FIBERGLASS REINFORCED PLASTIC
SPONGE NEOPRENE GASKET

ISOMETRIC
@ JAMB


KASON 1-M 50 SAFEGUARD RELEASE WHEN DOOR IS PADLOCKED PUSHING DOWN ON HANDLE RELEASES STRIKE
CLEAR WIDTH - SEE SCHEDULE
3/8" MAX. ALL AROUND
TRIM REF #1
LINING REF #1
BULKHEAD STIFFENER (BY YARD)
1⅝" x 2⅝" FRAMING DOUGLAS FIR
FABRIC BASE MICARTA RELEASE ROD
DIM. A
POLYURETHANE INSULATION - SEE SCHED.
#14 O.H. MACH SCREW W/TEE NUTS BRASS, CHROME PLTD
1/2" PLYWOOD PANEL
#14 O.H. WOOD SCREW BRASS, CHROME PLTD
#14 O.H. WOOD SCREW BRASS, CHROME PLT'D
3/4" PLYWOOD HINGE BLOCK
#14 O.H. MACH. SCREW W/TEE NUT BRASS, CHROME PLATED
FIBROUS GLASS REINFORCED PLASTIC
STEEL BHD JAMB

HORIZONTAL SECTION

241-539-01-05 | B | 2

ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
ALL	A	1. DRAWING REVISED TO SHOW PLASTIC DOOR AS PER J.J. HENRY LETTER 5589/539/JUM-429-70 DATED SEPT. 18, 1970						
ALL	B	1. MARAD DWG. REVISED. 2. EMERGENCY LOCK RELEASE REVISED. 3. MATL. FOR MOUNTING BOLT INDICATED. 4. THIRD HINGE SHOWN. 5. MATL. FOR RELEASE ROD INDICATED. 6. FULL WIDTH HINGE BLOCKS INDICATED. AUTHORITY: J.J. HENRY LTR. FILE 5589/534/JUM 25-71 DATED FEB. 9-71						

REVISIONS	O	A	B	C
TO				
LYKES		/	/	
M.A.(WASH)		/	/	
M.A.(YARD)		/	/	
J.J.HENRY(YARD)		/	/	
J.J.HENRY(HOME)		/	2	
ABS		/	/	
USCG		/	/	
USPHS			/	
871		5	9	
872		2	2	
873				
874				
875				
876		1	—	
L.A. [illegible]		1	1	
TOTAL NRO'S FS		6		
TOTAL NRO'S HS			11	
TOTAL RO				

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
			800		4
			820		
			826		
			829		
			830		7
			841		
			842		
			843		
			844		
			899		
			LIBRARY		3
			812		1
			814		1
			TOTAL		

GENERAL NOTES

INSULATION TO BE POLYURETHANE FOAM, SPEC. 32 MA 4b, TYPE I CLASS 2 (PREFOAMED 1.7 TO 2.5 PCF) OR TYPE II, CLASS 2 (FOAM-IN-PLACE 1.7 TO 2.5 PCF) NON BURNING ASTM D-1692.

HARDWARE IS TO BE CHROME PLATED.

FOR WEIGHTS, SEE REF. 1.

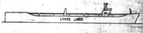
MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

SEABEE

B 11-15-73


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
1.	REFRIGERATED SPACES - ARRG'T & DETS.	30575 10x4	241 539 01-04

REFERENCES

P.O. U-123-301

Q div DWG NO. 30575-10x5

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR
SUPV
ENGR

REFRIGERATED SPACES
DOORS

APPROVED DATE 7/23/70
FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED
ABS
USCG
USPHS

CODE IDENT NO. 25316 | MARITIME ADMINISTRATION DWG NO. 241-539-01-05 | REV B
SCALE AS SHOWN | SHEET 1 OF 1

AREA SQ FT

Q div DWG NO. 30575-10x5

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-539-01-06 GD NO. 30575-10x6 FRAME ①2 3 4
SHEET 1 OF 2

ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
SHT#2-12	C	1. VERMICULITE ADDED TO OVERHEAD AND SHELL OF ENGINEERS STORES SPACE, CABIN DK FRS 88-102 S. SOURCE: INCORP AEA NO 5-1062 LYKES.	2/3/72 A.J.V.					
SHT#2-11 SHT#2-11	D	1. VERMICULITE ADDED TO OVER-HEAD AND SHELL OF ENGINEERS STORES SPACE, CABIN DK, FRS 82-88 S. 2. VERMICULITE ADDED TO MACHINERY CASING, SHELL SIDE, INBD BHD. AND OVERHEAD, UNDER UPPER DK (FROM LOWER TO UPPER DKS). SOURCE: ITEMS 1&2 INCORP AEA NO. 5-1212 LYKES-REV B	3/17/72 A.J.V.					
SHT#2 5,10	E	1 VERMICULITE ADDED TO AFT SIDE OF DOOR FR 58 PORT SIDE MN DK & TO FWD SIDE OF DOOR FR 34 & CABIN DK. SOURCE: INCORP AEA-5-1400-LYKES.	11/17/72 FF					

ZONE	LTR	REVISIONS DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	B	1. PLAN REV "A" APP'D BY J. J. HENRY LTR 5589/539/JUM-571-70 DATED DEC. 18, 1970. 2. STAIRWAY, MN DK FRS 40-42 P/S OUTBD BHD, VERMICULITE REPLACED BY INSULATION. 3. OFFICER'S BAGGAGE, MN DK, FRS 46-47(S) OUTBD BHD VERMICULITE REPLACED BY INSULATION. 4. BOW THRUSTER CONTROL ROOM, TWEEN DK. FRS 22-26 (P) VERMICULITE REPLACED BY INSULATION. 5. ELECT. STORES & MAINTENANCE SHOP, TWEEN DK. FRS 26-28 STBD., VERMICULITE REPLACED BY INSULATION. 6. LONG. SHAFT ALLEY BHDS FRS 84-89 P/S VERMICULITE ADDED. 7. COMPT TITLES CORRECTED. SOURCE: ITEMS 2-6 INCL TO SUIT ITEM 1 ABOVE. ITEM 7 DES CORR.	VD4 7/23/71				11/10/71	WDT

9 SATS

REVISIONS TO	O	A	B	C	D	E
		11/2/0	11/10/1	2/3/2	3/17/72	11/17/72
LYKES FRL		1	1	1	1	1
M.A.(WASH)		1	1	1	1	1
M.A.(YARD)		1	1	1	1	1
J.J.HENRY(YARD)		1	1	1	1	1
J.J.HENRY(HOME)		1	2	2	2	2
ABS Y/D		1	1	1	1	1
USCG Y/D		1	1	1	1	1
USPHS		1				
871		5	5	4	4	3
872		2	–			
873						
874						
875						
876		1	–			
TPS. 866		1	1	1	1	1
LIA. BLDG 108		2	1	1	1	1
TOTAL NRO'S FS		20	1			
TOTAL NRO'S HS			10	14	14	13
TOTAL RO						

SHOP ORDER	REV	DATE
30216 (2)	A	11-8-0
	B	11-11-1
	C	2-3-2
	D	3-20-2
	E	11-20-2

DEPT	QTY FS	QTY HS
800	4	
820	5	
826	12	
829		
830		
841	1	
842		
843		
844	5	
899		
LIBRARY	3	
812	1	
835	10	
TOTAL	41	

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G

GENERAL NOTES

1. VERMICULITE SHALL BE APPLIED IN AREAS AS SHOWN ON SHEETS #1 & 2.

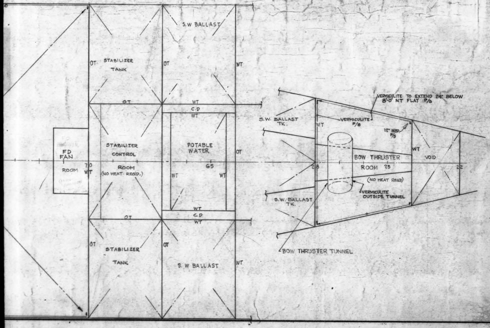
2. FOR METHOD OF APPLYING VERMICULITE, SEE GENERAL NOTE 5-D ON REFERENCE #2.

3. THE VERMICULITE SHALL EXTEND INBOARD ON TRANSVERSE STRUCTURE AND DOWN FROM OVERHEAD FOR 12"

4. IN THE MACHINERY SPACE, THE VERMICULITE SHALL EXTEND 24" BELOW THE 9'-6" FLAT.

5. BULKHEADS AND DECKHEADS BORDERING ON INTERIOR OR HEATED AREAS SUBJECT TO CONDENSATION, SHALL BE LIBERALLY SPRINKLED WITH MICA OR VERMICULITE PELLETS OVER SECOND PRIME (BINDER) COAT. REF #2, GENL NOTE 5 S.

6. ALL MACHINERY SPACE SURFACES EXPOSED TO ATMOSPHERIC TEMPERATURES INCLUDING UNDERSIDE OF THE LOWER DECK ARE TO BE INSULATED AGAINST MOISTURE CONDENSATION BY VERMICULITE COATED PAINT.



THIS PLAN IS FOR
VERMICULITE APPLICATION ONLY
NOT FOR INSULATION

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
2	PAINTING SCHEDULE	30261-01x1	241-519-1-1
1.	LYKES SPECS. MA DES C8-S-82a	P. 14-19; 14-15; &	14-17; 7-5

REFERENCES

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

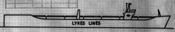
REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED

REV	DATE
E	11-29-72
E	5-22-73

SEABEE



SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82 a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30575-10x6

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN
DSGNR JBH
SUPV
ENGR

VERMICULITE
APPLICATION

APPROVED DATE 10/28/70
FOR GENERAL DYNAMICS QUINCY DIVISION
APPROVAL LTR DATED
ABS
USCG
USPHS

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-539-01-06	E
SCALE, 1/8 = 1'-0"	SHEET 1 OF 2	

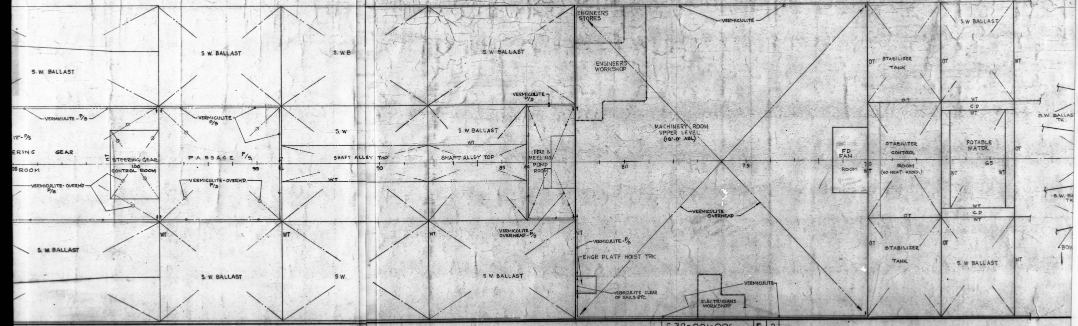
AREA = SQ FT

DWG. NO.
Q div DWG NO. 30575-10x6
M.A. DWG NO.

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

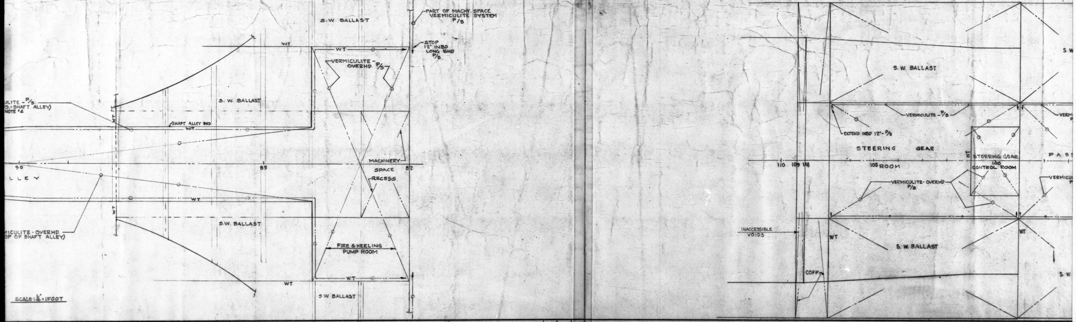
MA NO.241-539-01-06 GD NO. 30575-10x6 FRAME 1 ② 3 4

SHEET 1 OF 2


S. W. BALLAST
S. W. BALLAST
S. W. B
S. W BALLAST
ENGINEERS STORES
VERMICULITE
S.W BALLAST
ENGINEERS WORKSHOP
STABILIZER TANK
OT
WT
VERMICULITE - P/S
VERMICULITE P/S
VERMICULITE P/S
12"- P/S
ERING GEAR
STEERING GEAR CONTROL ROOM
100
PASSAGE P/S
95
S. W
S.W BALLAST
WT
SHAFT ALLEY TOP
SHAFT ALLEY TOP
90
85
84
FIRE & HEELING PUMP ROOM
MACHINERY ROOM UPPER LEVEL (18'-0" ABL)
80
75
FD FAN ROOM
70
STABILIZER CONTROL ROOM (NO HEAT REQ'D.)
C.D
POTABLE WATER
65
S.W. BALLAST TK.
S.W. BA TK.
DS ROOM
VERMICULITE - OVERHD P/S
VERMICULITE - OVERH'D. P/S
W.T
VERMICULITE OVERHEAD
VERMICULITE OVERHEAD - P/S
VERMICULITE - P/S
ENGR PLATF HOIST TRK
S. W. BALLAST
S. W. BALLAST
S.W.
S.W. BALLAST
STABILIZER TANK
S. W BALLAST
VERMICULITE CLEAR OF RAILS ETC.
ELECTRICIANS WORKSHOP
VERMICULITE
BOW

S39-001-006 E 2

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-539-01-06 GD NO. 30575-10x6 FRAME 1 2 ③ 4
SHEET 1 OF 2

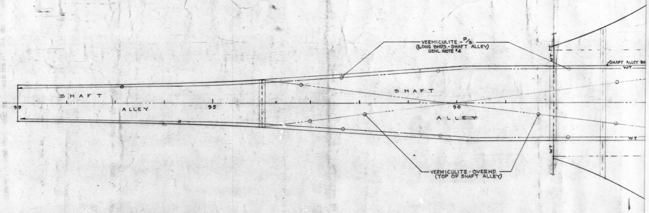

S.W. BALLAST
PART OF MACHY. SPACE VERMICULITE SYSTEM P/S
WT
STOP 12" INBD LONG BHD P/S
VERMICULITE - OVERHD. P/S
ULITE - P/S
?S.-SHAFT ALLEY)
NOTE #4
S. W. BALLAST
SHAFT ALLEY BHD
W.T.
WT
90
85
82
LLEY
MACHINERY
SPACE
RECESS
S.W. BALLAST
MICULITE - OVERHD.
OP OF SHAFT ALLEY)
FIRE & HEELING PUMP ROOM
S W BALLAST
SCALE: 1/4" = 1 FOOT
S. W. BALLAST
S. W
VERMICULITE - P/S
EXTEND INBD 12" - P/S
VERM
STEERING GEAR ROOM
110
109
108
105
100
WT
STEERING GEAR CONTROL ROOM
PASS
VERMICULITE - OVERHD P/S
VERMICUL
INACCESSIBLE VOIDS
S. W. BALLAST
COFF
S. W

S39-001-006 | E | 3

GENERAL DYNAMICS, QUINCY NOV., 1973 8X

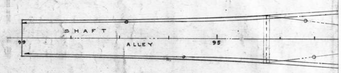
MA NO. 241-539-01-06 GD NO. 30575-10x6 FRAME 1 2 3 ④

SHEET 1 OF 2


VERMICULITE - P/S
(LONG BHDS. - SHAFT ALLEY)
GENL NOTE #4
SHAFT ALLEY BH
W.T.
W.T
SHAFT
ALLEY
SHAFT
ALLEY
99
95
90
W.T.
W.T
VERMICULITE - OVERHD.
(TOP OF SHAFT ALLEY)

SCALE: 1/4" = 1 FOOT

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-539-01-06 GD NO. 30575-10x6 FRAME 1 2 3 4 ⑤
SHEET 1 OF 2

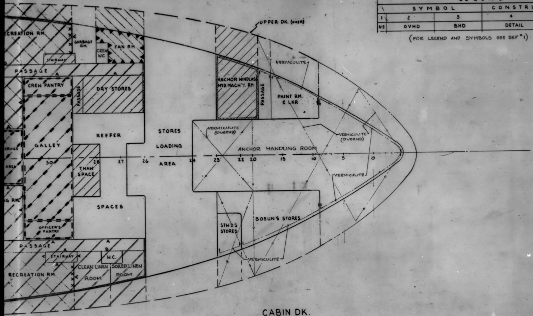

SHAFT
ALLEY
99
95

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO.241-539-01-06GD NO. 30575-10x6 FRAME ① 2 3 4 5
SHEET 2 OF 2

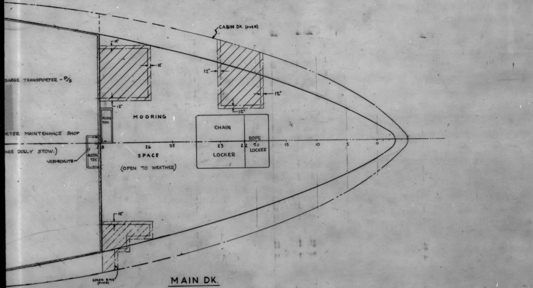
3					2				
REVISIONS		Q div	M.A.	OWNER	REVISIONS		Q div	M.A.	OWNER
ZONE LTR	DESCRIPTION	DATE APPD	DATE APPD	DATE APPD	ZONE LTR	DESCRIPTION	DATE APPD	DATE APPD	DATE APPD

LEGEND				
SYMBOL			CONSTRUCTION	
1	2	3	4	5
№	OVHD	BHD	DETAIL	REMARKS

(FOR LEGEND AND SYMBOLS SEE REF #1)


RECREATION RM.
GARBAGE RM.
CREW WC
FAN RM
STAIRWAY
PASSAGE
CREW PANTRY
PASSAGE
DRY STORES
UPPER DK. (OVER)
ANCHOR WINDLASS HYD. MACH'Y. RM.
PASSAGE
PAINT RM. & LKR
VERMICULITE
SERVICE AREA
GALLEY
REEFER
STORES
LOADING
AREA
THAW SPACE
SPACES
VERMICULITE (OVERHD)
ANCHOR HANDLING ROOM
VERMICULITE (OVERHD)
VERMICULITE
30 28 27 26 24 23 22 20 15 10 5 0
OFFICER'S PANTRY
STW'D'S STORES
BOSUN'S STORES
PASSAGE
STAIRWAY
W.C.
A
B
CLEAN LINEN ROOM
SOILED LINEN ROOM
RECREATION RM.
VERMICULITE

CABIN DK.


CABIN DK. (OVER)
12"
BARGE TRANSPORTER - P/S
MOORING
ACCESS TRK
RTER MAINTENANCE SHOP
ARE DOLLY STOW.)
VERMICULITE
28 26 25 23 22 20 15 10 5 0
SPACE
(OPEN TO WEATHER)
CHAIN
LOCKER
ROPE
LOCKER
LINEN RMS (OVER)

MAIN DK.

GENERAL NOTES

A. FOR GENERAL NOTES SEE SHT. #1

THIS PLAN IS FOR
VERMICULITE APPLICATION ONLY
NOT FOR INSULATION

RESERVATIONS

1						
REVISIONS			Q div	M.A.	OWNER	
ZONE	LTR	DESCRIPTION	DATE APPD	DATE APPD	DATE APPD	

SA-2-2

REVISIONS	O	A	B	C	SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
TO		[illegible]	[illegible]		30212	A	11-4-0	800	4	
LYKES NY		1	1			B	11-11-1	820	5	
M.A.(WASH)		1	1			C	3-3-4	826	10	
M.A.(YARD)		1	1			D	3-2-2	829		
J.J.HENRY(YARD)		1	1			E	11-20-2	830		
J.J.HENRY(HOME)		1	2					841	1	
ABS YD		1	1					842		
USCG YD		1	1					843		
USPHS		1						844	5	
LYK. N.ORL		1						899		
								LIBRARY	3	
871		5	5			Schmuhe		LYK [illegible]	1	
872		2								
873										
874										
875										
876		1								
TDS. 866		1	1							
4A. 868		2	1							
TOTAL NRO'S FS		20	15							
TOTAL NRO'S HS										
TOTAL RO								TOTAL	30	

MATERIAL SECTION SIGNATURE AREA

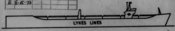
O	A	B	C	D	E	F	G

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

MICROFILMED

E	11-29-72
E	5-22-73
E	11-15-73

SEABEE


LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8 - S - 82 a
SINGLE SCREW CARGO VESSEL

LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
7	PAINTING SCHEDULE	30261-01X1	241-591-1-1
6	COMPT & ACCESS & GEN ARR OF FOCSLE & POOP DK & ABOVE	30211-03X7	241-516-1-7
5	COMPT & ACCESS & GEN ARRGT-UPPER DK	30211-03X6	241-516-1-6
4	COMPT & ACCESS & GEN ARRGT-CABIN DK	30211-03X5	241-516-1-5
3	COMPT & ACCESS & GEN ARRGT-MAIN DK	30211-03X4	241-516-1-4
2	COMPT & ACCESS-LOWER DK & TWEEN DK	30211-03-3	241-516-1-3
1	THERMAL & ACOUSTIC INSULATION DETAILS	30575-10X2	241-539-1-02

REFERENCES

Q div DWG NO.: 30575-10X6

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN ____
DSGNR JBH ____
SUPV G. D. Lirioni
ENGR ____

VERMICULITE
APPLICATION

APPROVED DATE 10/28/70
F. C. Rolfe
FOR GENERAL DYNAMICS
QUINCY DIVISION

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.
25316	241-539-01-06

SCALE 1/8" = 1'-0"
SHEET 2 OF 2

APPROVAL LTR DATED
ABS ____
USCG ____
USPHS ____

REV. E

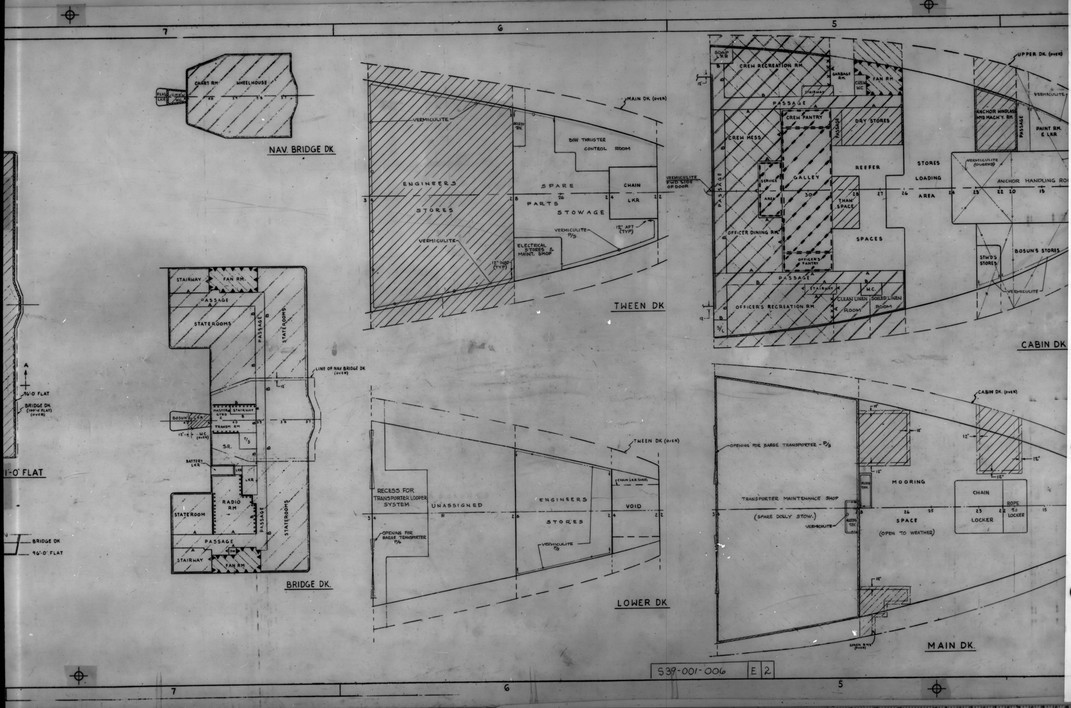
REV	Q div	M.A.	CONTR CHG APPLIC
	CONTR CHG NO.		

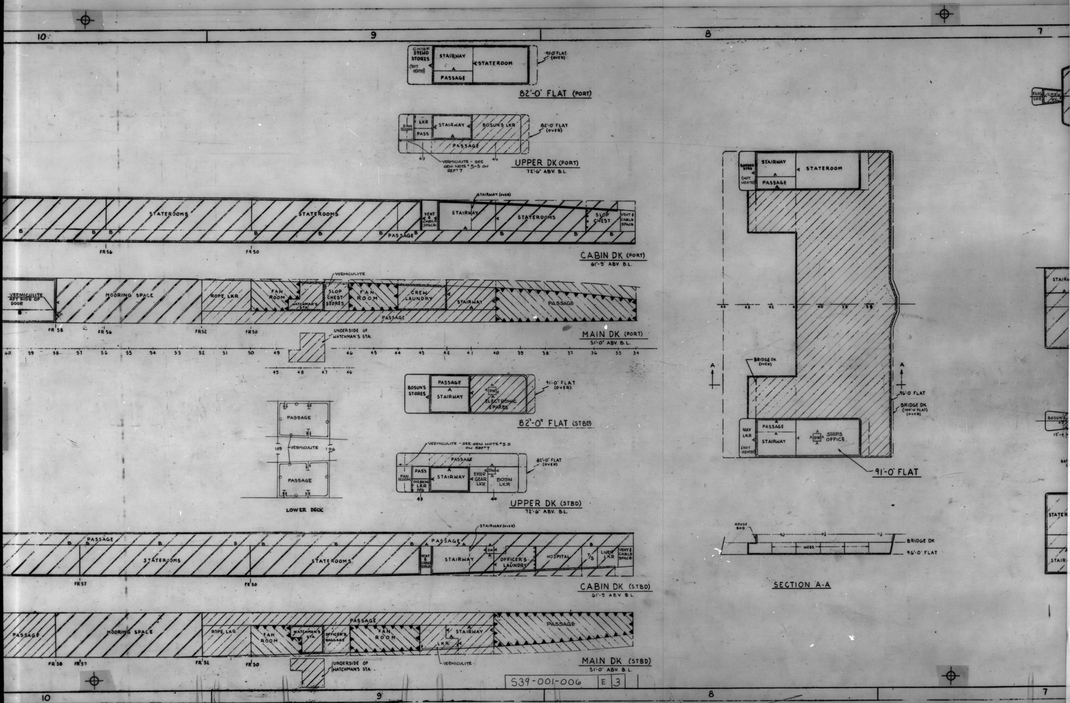
REV	Q div	M.A.	CONTR CHG APPLIC
	CONTR CHG NO.		

GENERAL DYNAMICS, QUINCY NOV, 1973 8X

MA NO.241-S39-01-06GD NO. 30575-10x6 FRAME 1 ② 3 4 5

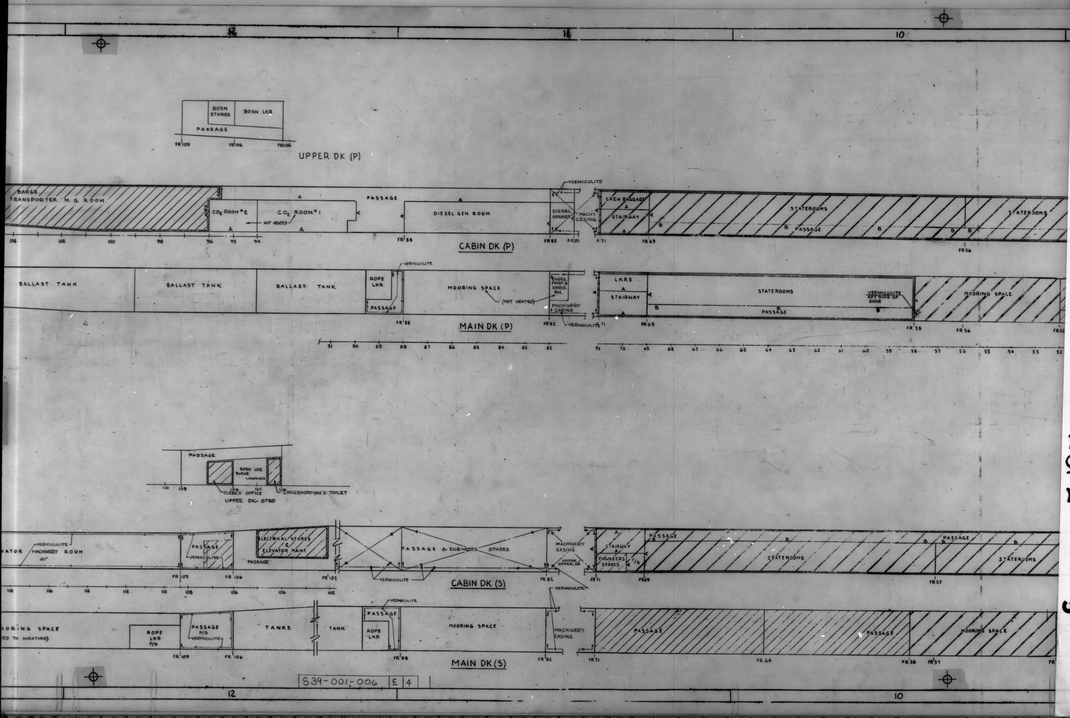
SHEET 2 OF 2


7
6
5
NAV. BRIDGE DK.
CHART RM
WHEELHOUSE
FLAG LKR
CREW W.C.
40
BRIDGE DK.
STAIRWAY
FAN RM.
PASSAGE
STATEROOMS
STATEROOMS
PASSAGE
LINE OF NAV BRIDGE DK (OVER)
BOSUN'S LKR
MASTER GYRO
STAIRWAY
TRANSM RM
W.C. (OVER)
S.R.
T/S
BATTERY LKR
LKR
RADIO RM
STATEROOM
PASSAGE
STAIRWAY
FAN RM
96'-0" FLAT
BRIDGE DK (100'-0" FLAT) (OVER)
1'-0" FLAT
BRIDGE DK
96'-0" FLAT
TWEEN DK
MAIN DK (OVER)
VERMICULITE
ACCESS TRK
BOW THRUSTER CONTROL ROOM
ENGINEERS STORES
SPARE PARTS STOWAGE
CHAIN LKR
VERMICULITE P/S
12" AFT (TYP)
VERMICULITE
ELECTRICAL STORES & MAINT. SHOP
12" INBD (TYP)
VERMICULITE FWD SIDE OF DOOR
LOWER DK
TWEEN DK (OVER)
RECESS FOR TRANSPORTER LOOPER SYSTEM
UNASSIGNED
OPENING FOR BARGE TRANSPORTER P/S
ENGINEERS STORES
VERMICULITE P/S
CHAIN LKR (OVER)
VOID
CABIN DK
SOAP LKR
CREW RECREATION RM.
GARBAGE RM.
CREW W.C.
FAN RM
STAIRWAY
PASSAGE
CREW PANTRY
DRY STORES
CREW MESS
SERVICE AREA
GALLEY
THAW SPACE
REEFER
OFFICER DINING RM.
OFFICER'S PANTRY
SPACES
PASSAGE
STAIRWAY
W.C.
OFFICER'S RECREATION RM.
CLEAN LINEN ROOM
SOILED LINEN ROOM
STORES LOADING AREA
UPPER DK. (OVER)
VERMICULITE
ANCHOR WINDLASS HYD MACH'Y. RM.
PASSAGE
PAINT RM. & LKR
VERMICULITE (OVERHD)
ANCHOR HANDLING ROO
STW'D'S STORES
BOSUN'S STORES
VERMICULITE
MAIN DK.
CABIN DK. (OVER)
OPENING FOR BARGE TRANSPORTER - P/S
TRANSPORTER MAINTENANCE SHOP
(SPARE DOLLY STOW.)
VERMICULITE
ACCESS TRK
MOORING SPACE
(OPEN TO WEATHER)
CHAIN LOCKER
ROPE LOCKER
LINEN RMS (OVER)
12"
34
28
26
24
22
23
20
15
S39-001-006
E 2



10
9
8
7
CHIEF STEWD STORES (NOT HEATED)
STAIRWAY
STATEROOM
PASSAGE
91'-0" FLAT (OVER)
82'-0" FLAT (PORT)
FAN ROOM
LKR
PASS
BOSUN'S LKR
82'-0" FLAT (OVER)
VERMICULITE - SEE GEN NOTE # 5-5 ON REF # 7
UPPER DK (PORT)
72'-6" ABV. B.L.
STATEROOMS
STAIRWAY (OVER)
VENT & CABLE SPACE
SLOP CHEST
PASSAGE
FR 56
FR 50
CABIN DK (PORT)
61'-9" ABV B.L.
VERMICULITE AFT SIDE OF DOOR
MOORING SPACE
ROPE LKR
FAN ROOM
WATCHMAN'S STA.
SLOP CHEST STORES
CREW LAUNDRY
VERMICULITE
FR 58
FR 52
MAIN DK (PORT)
51'-0" ABV. B.L.
UNDERSIDE OF WATCHMAN'S STA.
60 59 58 57 56 55 54 53 52 51 50 49 46 45 44 43 42 41 40 39 38 37 36 35 34
45 48 47 46
BOSUN'S STORES
ELECTRONIC SPARES
DW
82'-0" FLAT (STBD)
LOWER DECK
109
106
VERMICULITE - SEE GEN NOTE # 5-5 ON REF # 7
OILSKIN LKR P/S
EMER GEAR LKR
BOSN LKR
43
40
UPPER DK (STBD)
72'-6" ABV. B.L.
OFFICER'S LAUNDRY
HOSPITAL
T/S
LINEN LKR
FR 57
CABIN DK (STBD)
61'-9" ABV B.L.
OFFICER'S BAGGAGE
VERMICULITE
MAIN DK (STBD)
51'-0" ABV. B.L.
BONDED STRS (NOT HEATED)
44 43 42 41 40 39 38
BRIDGE DK (OVER)
96'-0" FLAT
BRIDGE DK (100'-0" FLAT) (OVER)
NAV LKR (NOT HEATED)
SHIPS OFFICE
91'-0" FLAT
A
HOUSE BHD
WEBS
BRIDGE DK
96'-0" FLAT
SECTION A-A
FLAG LKR
CREW
STAIRWAY
STATEROOM
BOSUN
BAT
BR
S39-001-006
E
3

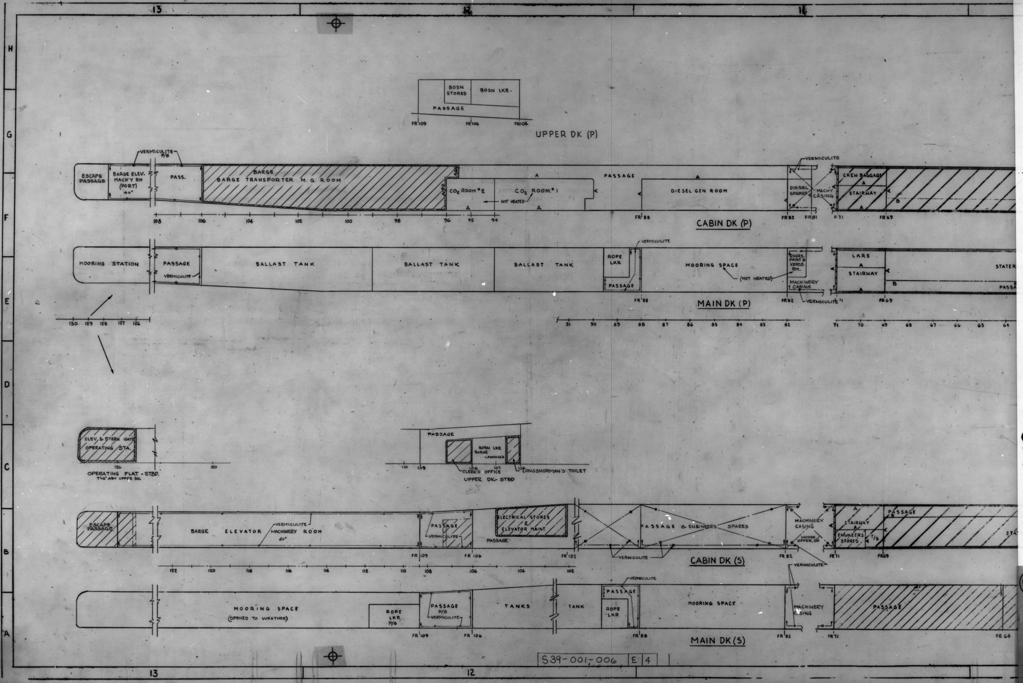
GENERAL DYNAMICS, QUINCY NOV. 1973 8X
MA NO.241-539-01-06 GD NO. 30575-10x6 FRAME 1 2 ③ 4
SHEET 2 OF 2


12
11
10
BOSN STORES
BOSN LKR
PASSAGE
FR 109
FR 106
FR 104
UPPER DK (P)
BARGE TRANSPORTER M. G. ROOM
CO2 ROOM #2
CO2 ROOM #1
NOT HEATED
PASSAGE
DIESEL GEN ROOM
DIESEL SPARES
MACHY CASING
VERMICULITE
CREW BAGGAGE
STAIRWAY
STATEROOMS
PASSAGE
STATEROOMS
FR 88
FR 82
FR 81
FR 71
FR 69
FR 56
CABIN DK (P)
BALLAST TANK
BALLAST TANK
BALLAST TANK
ROPE LKR
PASSAGE
MOORING SPACE
(NOT HEATED)
ENGRS. PAINT & KEROS. RM.
MACHINERY CASING
LKRS
STAIRWAY
STATEROOMS
PASSAGE
VERMICULITE AFT SIDE OF DOOR
MOORING SPACE
FR 88
FR 82
FR 69
FR 58
FR 56
FR 52
MAIN DK (P)
PASSAGE
BOSN LKR BARGE LASHINGS
CLERK'S OFFICE
LONGSHOREMAN'S TOILET
UPPER DK - STBD
VATOR MACHINERY ROOM
40°
VERMICULITE
PASSAGE
ELECTRICAL STORES & ELEVATOR MAINT
PASSAGE & ENGINEERS SPARES
MACHINERY CASING
UNDER UPPER DK
STAIRWAY
ENGINEERS STORES
T/S
PASSAGE
STATEROOMS
PASSAGE
STATEROOMS
FR 109
FR 106
FR 102
FR 82
FR 71
FR 69
FR 57
CABIN DK (S)
OORING SPACE
NED TO WEATHER)
ROPE LKR P/S
PASSAGE P/S
TANKS
TANK
ROPE LKR
MOORING SPACE
MACHINERY CASING
PASSAGE
PASSAGE
MOORING SPACE
FR 109
FR 106
FR 88
FR 82
FR 71
FR 64
FR 58
FR 57
MAIN DK (S)
12
10

S39-001-006 | E | 4

GENERAL DYNAMICS, QUINCY NOV, 1973 8X
MA NO. 241-S39-01-06GD NO. 30575-10x6 FRAME 1 2 3 ④ 5
SHEET 2 OF 2

GENERAL DYNAMICS, QUINCY NOV., 1973 8X
MA NO. 241-S39-01-06 GD NO. 30575-10x6 FRAME 1 2 3 4
SHEET 2 OF 2 ⑤


13
12
11
H
G
F
E
D
C
B
A
BOSN STORES
BOSN LKR.
PASSAGE
FR 109
FR 106
FR 104
UPPER DK (P)
VERMICULITE P/S
ESCAPE PASSAGE
BARGE ELEV. MACH'Y RM (PORT) 40°
PASS.
BARGE
BARGE TRANSPORTER M. G. ROOM
CO2 ROOM #2
CO2 ROOM #1
NOT HEATED
PASSAGE
DIESEL GEN ROOM
VERMICULITE
DIESEL SPARES
MACHY CASING
CREW BAGGAGE
STAIRWAY
A
B
108
106
104
102
100
98
96
95
94
FR 88
FR 82
FR 81
FR 71
FR 69
CABIN DK (P)
MOORING STATION
PASSAGE
VERMICULITE
BALLAST TANK
BALLAST TANK
BALLAST TANK
ROPE LKR
PASSAGE
MOORING SPACE
(NOT HEATED)
ENGRS. PAINT & KEROS. RM.
MACHINERY CASING
VERMICULITE
LKRS
STAIRWAY
STATER
PASSA
FR 88
FR 82
FR 69
MAIN DK (P)
130
129
128
127
126
91
90
89
88
87
86
85
84
83
82
71
70
69
68
67
66
65
64
ELEV. & STERN GATE OPERATING STA.
126
120
OPERATING FLAT - STBD.
7'-6" ABV UPPER DK.
PASSAGE
BOSN LKR
BARGE LASHINGS
110
109
106
105
104
CLERK'S OFFICE
LONGSHORMAN'S TOILET
UPPER DK - STBD
ESCAPE PASSAGE
BARGE ELEVATOR MACHINERY ROOM 40°
VERMICULITE
PASSAGE
VERMICULITE
ELECTRICAL STORES & ELEVATOR MAINT
PASSAGE
PASSAGE & ENGINEERS SPARES
VERMICULITE
MACHINERY CASING
UNDER UPPER DK
STAIRWAY
PASSAGE
ENGINEERS STORES
T/S
FR 109
FR 106
FR 102
FR 82
FR 71
FR 69
CABIN DK (S)
122
120
118
116
114
112
110
108
106
104
102
VERMICULITE
MOORING SPACE
(OPENED TO WEATHER)
ROPE LKR P/S
PASSAGE P/S
VERMICULITE
TANKS
TANK
PASSAGE
ROPE LKR
VERMICULITE
MOORING SPACE
MACHINERY CASING
PASSAGE
FR 109
FR 106
FR 88
FR 82
FR 71
FR 64
MAIN DK (S)
S39-001-006
E
4

GENERAL DYNAMICS, QUINCY
DEC., 1973 8X
MA NO.241-S39-02-02GD NO. 30748-11x2 FRAME ①2 3 4
Sheet 1 of 2

M.A. DWG NO. 241-S39-02-02

TABLE "A" NOMINAL THICKNESS OF PIPE INSULATION

INSULATING MAT'L = MIL-I-22344 FIBEROUS GLASS (ONE PIECE SNAP-ON)

NOMINAL PIPE SIZE (INCHES)	DESIGN INTERNAL TEMP. RANGE				
	126 - 150	151 - 200	201 - 250	251 - 300	351 - 370
1/2"	1/2"	1/2"	3/4"	1"	1 1/2"
3/4"	1/2"	1/2"	1"	1"	1 1/2"
1"	1/2"	3/4"	1"	1"	1 1/2"
1 1/4 - 2"	1/2"	3/4"	1"	1 1/2"	1 1/2"
2 1/2-4 1/2	1/2"	3/4"	1"	1 1/2"	2"
5" - 6"	1/2"	3/4"	1 1/2"	1 1/2"	2"
8"	1/2"	1"	1 1/2"	1 1/2"	2"
10"	1/2"	1"	1 1/2"	2"	2"
12" & ABOVE	1"	1"	1 1/2"	2"	3"

TABLE "G" THICKNESS OF MACH INSUL

DESIGN INTERNAL TEMPERATURE	HIGH TEMP INSULATION	MED. TEMP. INSULATION	INSUL. CEMENT	TOTAL
126°F TO 199°F		1"	1/2"	1 1/2"
200°F TO 299°F		1 1/2"	1/2"	2"
300°F TO 399°F		2"	1/2"	2 1/2"
400°F TO 499°F		2 1/2"	1/2"	3"
500°F TO 599°F		3"	1/2"	3 1/2"
600°F TO 699°F	1"	2"	1/2"	3 1/2"
700°F TO 799°F	1 1/2"	2"	1/2"	4"
800°F TO 899°F	2 1/2"	1 1/2"	1/2"	4 1/2"
900°F TO 999°F	3"	1"	1/2"	4 1/2"

TABLE "B" NOMINAL THICKNESS OF PIPE INSULATION

INSULATION MAT'L = MIL-I-2781 GR III CLASS F (UNIBESTOS)

NOMINAL PIPE	DESIGN INTERNAL TEMPERATURE RANGE						
	371 - 399	400 - 499	500 - 599	600 - 699	700 - 799	800 - 899	900 - 999
1/2"	1 1/2"	1 1/2"	2"	2"	2 1/2"	3"	3 1/2"
3/4"	1 1/2"	1 1/2"	2"	2"	2 1/2"	3"	3 1/2"
1"	1 1/2"	1 1/2"	2"	2"	2 1/2"	3"	3 1/2"
1 1/4"	1 1/2"	2"	2"	2 1/2"	3"	3 1/2"	3 1/2"
1 1/2"	1 1/2"	2"	2"	2 1/2"	3"	3 1/2"	3 1/2"
2"	1 1/2"	2"	2"	2 1/2"	3"	3 1/2"	4"
2 1/2"	1 1/2"	2"	2 1/2"	3"	3 1/2"	3 1/2"	4"
3"	1 1/2"	2"	2 1/2"	3"	3 1/2"	3 1/2"	4"
4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"
5"	1 1/2"	2 1/2"	2 1/2"	3"	3 1/2"	4"	4 1/2"
6"	1 1/2"	2 1/2"	2 1/2"	3"	3 1/2"	4"	4 1/2"
8"	1 1/2"	2 1/2"	2 1/2"	3"	3 1/2"	4 1/2"	5"
10"	1 1/2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"
12"	1 1/2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5 1/2"

TABLE "C" NOMINAL THICKNESS OF PIPE INSULATION

ANTI - SWEAT INSULATION
THRU 5" IPS - FOAM PLASTIC MIL-P-15280 (ARMAFLEX)
OVER 5" IPS - FIBEROUS GLASS - MIL-I-22344

NOMINAL PIPE SIZE (INCHES)	DESIGN INTERNAL TEMPERATURE RANGE	
	30°F TO 50°F	50°F-125°F
1/4" TO 1 1/4"	3/4"	1/2"
1 1/2" TO 3"	1"	3/4"
3 1/2" TO 5"	1 1/2"	3/4"
6" TO 10"	1 1/2"	1"
12" TO 24"	1 1/2"	1"

TABLE "D" NOMINAL THICKNESS OF PIPE INSULATION

REFRIGERANT INSULATION - FOAM GLASS OR FOAM PLASTIC

NOMINAL PIPE SIZE	DESIGN INTERNAL-TEMPERATURE RANGE		
	~~-20°F TO -30°F~~	35°F TO -20°F	125°F TO 35°F
1/2"-4 1/2"	~~3"~~	2 1/2"	1 1/2"
5" TO 8"	~~3"~~	2 1/2"	2"
9" TO 24"	~~3 1/2"~~	3"	2"

F

TABLE "E" NOMINAL THICKNESS OF PIPE INSULATION

AIR CONDITIONING CHILLED WATER PIPING
THRU 5"IPS - FOAMED PLASTIC - MIL-P-15280 (ARMAFLEX)
OVER 5"IPS - SECTIONAL FIBEROUS GLASS - MIL-I-22344

~~PIPING IN MACHY SPACES~~		PIPING OUTSIDE MACHY SPACES	
~~PIPE SIZE~~	~~INSUL. THKNS~~	PIPE SIZE	INSUL. THKNS
~~1/4" TO 8"~~	~~2 1/2"~~	1/4" TO 4 1/2	1 1/2"

E

TABLE "F" NOMINAL THICKNESS OF PIPE INSULATION

EMER. DSL. GEN. SERV. SYS.
INSUL TYPE = ERCOMAT - MIL-I-16411
DSL EXH. PIPING NOT EXPOSED TO WEATHER

TEMPERATURE	INSULATION THICKNESS
950°F	4"

241-S39-02-02-SH 1	G	2

GENERAL NOTES

1. ALL PIPING, MACHINERY AND EQUIPMENT SHALL BE INSULATED AND LAGGED AS SPECIFIED. EQUIPMENT AND PIPING DESIGNED TO DISSEMINATE OR ABSORB HEAT ARE EXCLUDED FROM THESE REQUIREMENTS.

FOR PIPING WITH DESIGN INTERNAL TEMPERATURES OF 300°F AND OVER THE PIPE SHALL BE INSULATED FROM THE HANGERS OR THE HANGERS INSULATED FROM THE STRUCTURES TO WHICH THEY ARE ATTACHED WHERE THE HEAT TRANSMITTED MAY BE OBJECTIONABLE ON THE OTHER SIDE OF THE STRUCTURE.

PIPING EXPOSED TO THE WEATHER SHALL BE EFFECTIVELY INSULATED AGAINST FREEZING, EXCEPT THAT THIS REQUIREMENT APPLIES ONLY TO SYSTEMS IN WHICH A FLUID IS NORMALLY FLOWING, AND DOES NOT APPLY TO SYSTEMS WHERE THE EXPOSED PORTION MAY BE SECURED AND DRAINED.

CONCEALED AND EXPOSED PIPING OUTSIDE MACHINERY SPACE HAVING INTERNAL TEMPERATURES OVER 125°F, OR LESS THAN 55°F, SHALL HAVE CONTINUOUS INSULATION IN WAY OF ALL PENETRATIONS AND SUPPORTS EXCEPT THAT INSULATED STUFFING BOXES SHALL BE USED IN WAY OF WATERTIGHT STRUCTURE.

THICKNESS OF INSULATION AS SPECIFIED MAY BE MODIFIED SUBJECT TO APPROVAL. HOWEVER, INSULATED AND FABRIC-LAGGED SURFACE TEMPERATURES SHOULD NOT EXCEED 150°F; METAL OR METALLIC TYPE LAGGING SURFACE TEMPERATURES SHOULD NOT EXCEED 125°F WHEN IN AREAS SUSCEPTIBLE TO PERSONNEL CONTACT. SURFACES EXCLUDED FROM THESE REQUIREMENTS ARE:

(A) WHERE APPLICATION OF INSULATION WOULD AFFECT PROPER OPERATION.

(B) MECHANICAL JOINTS EXPOSED TO SUB-ATMOSPHERIC PRESSURES, AND THOSE INCLUDED IN THE FUEL OIL SERVICE PIPING FROM HEATERS TO BURNERS.

(C) FUEL OIL PIPING BETWEEN HEADERS AND BURNERS.

(D) 125°F AND HIGHER PIPING IN BILGES, NOT WITHIN WATERTIGHT ENCLOSURES.

(E) PIPING IN LOCATIONS WHERE SWEATING IS NOT OBJECTIONABLE SUCH AS VOIDS, BILGES AND SHAFT ALLEYS, PLUS PLUMBING FIXTURES AND ASSOCIATED SUPPLY AND DRAIN PIPING IMMEDIATELY ADJACENT THERETO.

(F) PRESSURE GAGE PIPING.

(G) STEAM TRAPS AND THEIR INLET BACK 24 INCHES FROM THE TRAPS.

E 2. REMOVABLE-REUSABLE COVERS OR PADS - ALL FLANGES, FLANGE FITTINGS, VALVES, PIPING COMPONENTS, APPLICABLE MACHINERY AND UNITS OF EQUIPMENT, PARTICULARLY REMOVABLE PORTION THEREOF, SUSCEPTIBLE TO TAKEDOWN FOR INSPECTION AND MAINTENANCE, SHOULD MAKE USAGE OF READILY REMOVABLE-REUSABLE (ONE PIECE OR SECTIONALIZED) TYPE COVERS OR PADS, USING ITEM 17. SEE NOTE 27.

COVERS AND/OR PADS SHALL GENERALLY BE MADE OF APPLICABLE FELTED MATERIAL COMPLETELY LAGGED. LAGGING SHALL BE SECURED BY STITCHING. TO INSURE NON-INTERFERENCE WITH SERVICING OR TAKEDOWN JOINTS AND INSTALLATION OF FLEXIBLE COVERS, THE PERMANENT INSULATION SHALL STOP SHORT OF TAKEDOWN JOINT AND A SHORT REMOVABLE-REUSABLE SECTION OF INSULATION BETWEEN THE PERMANENT INSULATION AND THE TAKEDOWN JOINT. THE JOINT BETWEEN THE PERMANENT AND REUSABLE SECTIONS MAY BE SQUARE OR AT A 45° ANGLE, HOWEVER, IT SHALL BE TIGHT WITHOUT ANY GAPS. THE COVERS, WHEN INSTALLED AND SECURED BY LACING VIA THRU-HOOKS, SHOULD PRESENT A NEAT, SOMEWHAT SMOOTH, APPEARANCE.

WHEN INSTALLING THE SUBJECT COVERS OR PADS, ALL SPACES OR VOIDS BENEATH THE INNER SURFACES SHALL BE FILLED WITH PIECES OF APPLICABLE FELTED MATERIAL. PIECES SHALL BE PACKED LOOSE ENOUGH TO PRESERVE AIR CELL STRUCTURE, BUT TIGHT ENOUGH TO PREVENT AIR CIRCULATION.

3. THE INSULATION FOR LINES WHICH COME WITHIN THE RANGE OF TEMPERATURES ABOVE 125°F BUT NOT EXCEEDING 599°F WILL BE MEDIUM TEMPERATURE INSULATION, LINES 600°F AND ABOVE WILL BE HIGH TEMPERATURE INSULATION.

4. MOLDED FIBROUS GLASS (HH-I-552 TYPE 1 CLASS B) 1/2" THICK OR PLASTIC FOAM MIL-P-15280 IS TO BE USED FOR ANTI-SWEAT INSULATION.

5. WHERE PIPING PASSES THROUGH THE GALLEY AND OTHER HUMID SPACES THE INSULATION SHALL BE ONE (1) INCH DOUBLE LAYER & WATERPROOFED OUTSIDE OF EACH LAYER. THE OUTER LAYER SHALL BE INSTALLED SO THAT ALL JOINTS ARE STAGGERED.

6. PIPES BELOW FLOOR LEVEL NEED NOT BE INSULATED EXCEPT IN DRY STORE ROOMS OR OTHER LOCATIONS WHERE CONDENSED MOISTURE WOULD BE OBJECTIONABLE.

7. WHERE ANTI-SWEAT INSULATION IS REQUIRED REMOVABLE & REPLACEABLE COVERS SHALL BE PROVIDED FOR VALVES LARGER THAN 2" I.P.S.

8. THE PIPES THAT CARRY REFRIGERANTS, AND ARE REQUIRED TO BE INSULATED, WILL BE INSULATED WITH MOLDED SECTIONAL CELLULAR GLASS (FED. SPEC. HH-I-551) AND COATED WITH FIRE RETARDANT VAPOR SEALER (MIL-P-876) OR PLASTIC FOAM MIL-P-15280.

9. THE END JOINT OF CELLULAR GLASS SHALL BE STAGGERED BY 1/2 THE LENGTH OF THE SECTIONS AND LONGITUDINAL JOINTS SHALL BE KEPT AT TOP & BOTTOM OF THE PIPE NOT ON THE SIDES.

10. THE CELLULAR GLASS SHALL BE SECURED IN PLACE WITH 1/2" WIDE NO. 22 USCG GALVANIZED STEEL BANDS SPACED ON 9" CENTERS STARTING APPROXIMATELY 4 1/2" FROM INSULATION BUTT JOINT.

D 11. AT THE TIME OF INSTALLATION THE CELLULAR GLASS SHALL BE COATED ON THE INSIDE, EDGES & BOTH ENDS WITH FIRE RETARDANT VAPOR SEAL (MIL-P-876). AFTER APPLICATION & WHILE THE VAPOR SEAL IS STILL SOFT IT SHALL BE LAGGED WITH LIGHTWEIGHT ASBESTOS CLOTH (SS-S-466B GRADE U.G. STYLE 3), OR ITEM 16.

12. HANGERS AND FASTENINGS SHALL BE CLAMPED ON THE OUTSIDE OF THE CELLULAR GLASS AND SHALL BE PROTECTED BY A GALVANIZED SHEET STEEL SHIELD (#22 GAGE FED. SPEC. QQ-S-775) BETWEEN CLAMP & INSULATION EXTENDING 2" FROM EACH SIDE OF CLAMP.

13. BENT PIPE, FITTINGS, FLANGES & VALVE COVERS SHALL BE SHOP ASSEMBLED FROM SECTIONS OF CELLULAR GLASS MOLDED PIPE COVERING OR BLOCK WITH THE JOINTS FITTED TIGHTLY & CEMENTED TOGETHER WITH VAPOR SEALER OR ADHESIVE CEMENT. ALL SURFACES SHALL BE COATED WITH VAPOR SEALER AT TIME OF INSTALLATION. VOIDS BETWEEN INSULATION AND FITTING SHALL BE FILLED WITH TIGHTLY PACKED MINERAL WOOL. ADJACENT PIPE INSULATION SHALL BE FITTED TIGHTLY TO THE BUTT ENDS OF THE FITTING COVER USING VAPOR SEALER COATING IN THE JOINTS. THE INSULATION SHALL BE SECURED IN A MANNER SIMILAR TO THAT SPECIFIED FOR STRAIGHT PIPE. WHERE STEEL BANDS ARE INCONVENIENT TO INSTALL, NO. 18 BWG GALVANIZED IRON WIRE APPLIED OVER 1" WIDE ASBESTOS TAPE MAY BE USED.

14. INSULATION SHALL BE SO FITTED THAT IT WILL BE READILY REMOVABLE & REPLACEABLE FOR SERVICE MAINTENANCE AND REPAIR OF ALL EQUIPMENT WITHOUT THE DESTRUCTION OF THE INSULATION.

15. INSULATION SHALL NOT BE INSTALLED ON PIPING CONNECTIONS OR JOINTS OF ANY TYPE DURING PRESSURE TESTS OR UNTIL PIPING HAS PASSED SATISFACTORY INSPECTION.

16. INSULATION SHALL NOT BE FITTED ON ANY PIPING IN VOIDS, COFFERDAMS OR TANKS AND ALL PIPING BELOW FLOOR LEVEL WHERE LIABLE TO COME IN CONTACT WITH BILGE WATER.

17. IN LIEU OF THERMAL BLOCKS, FOR INSULATING MISCL. EQUIPMENT AND MACHINERY, A MIXTURE OF FOUR (4) PARTS INSULATING CEMENT (MIL-C-2861 TYPE B) TO ONE (1) PART PORTLAND CEMENT (SS-C-192), MAY BE USED AS FOLLOWS:

(A) APPLY SUCCESSIVE LAYERS OF 1/2" TO 1" THICKNESS ALLOWING EACH LAYER TO DRY BEFORE APPLYING NEXT COAT.

(B) 1" HEX #18 GAGE GALV. IRON WIRE MESH IS TO BE APPLIED BETWEEN LAYERS.

(C) SEE TABLE FOR REQUIRED THICKNESS.

18. MACHINERY INSULATION - THICKNESS SPECIFIED IN TABLE IS FOR INSULATION ONLY. INSULATION SHALL BE LAGGED WITH 1/2" THICK HARD FINISH INSULATING CEMENT REINFORCED WITH HARDWARE CLOTH.

19. WHERE REMOVABLE TAILORED PADS ARE USED, THE PIPE INSULATION SHALL BE TAPERED TO PERMIT THE REMOVAL OF NUTS & BOLTS. THE FLANGE INSULATION SHALL OVERLAP THE OUTER BEVELED EDGE OF THE PIPE INSULATION APPROXIMATELY 2".

D 20. LAGGING FOR PIPING AND EQUIPMENT WHERE THE INTERNAL TEMPERATURES DO NOT EXCEED 500°F SHALL BE LIGHT WEIGHT ASBESTOS CLOTH (FED. SPEC. SS-C-466B GRADE U.G. STYLE 3). FOR TEMPERATURES ABOVE 500°F LAGGING SHALL BE AS SPECIFIED. LIGHT WEIGHT ASBESTOS CLOTH TO BE APPLIED WITH ADHESIVE CEMENT MIL-C-3116 TYPE II. CLOTH, ITEM 16, MAY BE USED AS AN ALTERNATE.

21. LAGGING SHOULD BE SEWN ONLY WHEN ADJACENT TO HOT SURFACES AND THE LAGGING IS EXPOSED TO HIGH TEMPERATURE.

22. ANY MATERIAL CONFORMING IN ALL RESPECTS TO THE APPLICABLE SPECIFICATIONS MAY BE SUBSTITUTED IN PLACE OF THAT SPECIFIED.

23. ALL INSULATION AND LAGGING ALONGSIDE OF HATCHES, SUBJECT TO MECHANICAL INJURY, SHALL BE PROTECTED BY 1/4" CHECKERED PLATES AND HEAVY ANGLES.

24. 1/8" THICK BY 1" WIDE FLAT BAR CLIPS TO BE MADE UP FROM STOCK AS REQUIRED TO FULFILL THE INSULATION REQUIREMENTS OR NELSON STUDS MAY BE USED WHERE WELDING IS PERMISSIBLE. MATERIAL IS TO BE ORDERED BY PIPE COVERERS.

25. REFRIGERANT SUPPLY PIPING AHEAD OF EXPANSION VALVE NEED NOT BE INSULATED WHERE AMBIENT TEMPERATURE IS LESS THAN 120°F, EXCEPT WHERE DRIPPING MAY CAUSE DAMAGE OR DISCOMFORT.

26. PIPING LEADING TO & FROM REFRIGERATED SPACES SHALL BE SUITABLY INSULATED FOR REASONABLE DISTANCE FROM THE SPACES TO PREVENT HEAT TRANSFER.

E 27. REMOVABLE REUSABLE PADS - WIRE INSERTED CLOTH, ITEM 15, TO BE USED ON INSIDE SURFACE OF PADS WHICH COME IN CONTACT WITH TEMPERATURES OVER 600°F.

F 28. HOT DIPPED GALVINIZED SHEET STEEL #20 GA QQS-775 SOURCE NO.9-20-02906 WILL BE INSTALLED AS REQUIRED TO PROTECT INSULATION FROM REPEATED ABRASION OR MECHANICAL DAMAGE IN THE NORMAL OPERATION & MAINTENANCE OF THE VESSEL.

(GENERAL NOTES-CONT. ABOVE)

GENERAL NOTES-CONT

F 29. THE FOLLOWING ITEMS WERE REQUIRED AND USED IN THE AMOUNTS NOTED:

(A) ADHESIVE, ASBESTOS CLOTH, MIL-A-15188 SOURCE NO. 9-56-02000 USAGE 1,425 GALS PER SHIP.

(B) THREAD SEWING, 3PLY ASBESTOS WITH NO. 1011 MONEL INSERTED AAA. SOURCE NO. 9-56-09453 - USAGE 20-2LB SPOOLS PER SHIP.

G 30. PRIOR TO APPLICATION OF LAGGING, INSULATION LOCATED IN AREAS EXPOSED TO THE WEATHER OR UNDUE MOISTURE SHALL BE PROTECTED WITH 1/4" THK WEATHER-RESISTANT INSULATION REINFORCED WITH HARDWARE CLOTH AND SECURED WITH NO. 16 B & S COPPER WIRE.

REVISIONS

ZONE	LTR	DESCRIPTION	Q div DATE	Q div APPD	M.A. DATE	M.A. APPD	OWNER DATE	OWNER APPD
	A	PLAN APPROVED BY J.J. HENRY LTR NO. 5589/S39/WSH/M-587-70 DATED: 25 MARCH 70, WITH COMMENTS. ADDED: MARAD NO. TO DIAGRAMS LISTED; SOURCE TO ITEM NO. 3,4,5,8,9,10, 26, 34, 44, 80, 96, 142, 143, 166, 178, 179, 180, 181, 182, 183, 192, 193, 206, 246 & 265. REVISED: SOURCE OF ITEM NO. 12 & 13; TYPE OF INSULATION OF ITEM NO. 80, 96, 109 & 110; SPEC OF ITEM NO. 265 THRU 270 INCLUSIVE. PLAN EXAMINED BY U.S. COAST GUARD LTR 5940/GEN DYN 18-20. DATED: 19 MARCH 70	4/6/70				10 APR 70	
—	B	ADDED: ITEM NO.'S 110 THRU 114 FOR FIREMAIN SYSTEM RELEASES ANDC ME-087. BARGE ELEVATOR HYD SYS & REF 26 RELEASES ANDC ME-093	DM 6/10/70 JEG		6/17/70		17 JUN 1970	
	C	ADDED: BOILER DOWNCOMER PIPING TO ITEMS 143 & 151. RELEASES ANDC NO. ME-221. REVISED: ITEMS 110, 111, 112, 113, & 114, THICKNESS WAS 1", 1", 1 1/2", 1 1/2" & 1-1/2" RESPECTIVELY. RELEASES ANDC ME-215. CORRECTIVE ACTION DESIGN: ADDED: ITEMS 341 THRU 351, 356 THRU 378, 382 THRU 389 & 392 THRU 394. DELETED: ITEMS 189 THRU 207 & 321 THRU 323. ADDED: LAGGING TO ITEMS 1 THRU 13	RCC 5/28/71 JEG				10 JUN 1971	
	D	TO FACILITATE INSTALLATION; ADDED: ITEM 16 TO NOTES 11 & 20 AND ITEM 17 TO NOTE 2. CORRECTIVE ACTION DESIGN; ADDED: INSULATION FOR F O PIPING REVISED: ITEM 331 332 & 333 REMARKS COLUMN MATERIAL CHANGE; ADDED: ITEMS 16 17 & 335 THRU 339	RCC 7-12-71 JEG				9/2/71	
	E	ADDED: TO REMARKS COLUMN NOTE, "FOR SERVICE & ACCOMMODATION AREA SEE PANEL 21-24 SHEET 2", FOR ITEM NO'S 19-34, 54-60, 89-95, 102-107. ADDED: ACCOMMODATION & SERVICE AREA REQUIREMENTS FOR PLUMBING SYS (30656-01) PC. NO'S 416-420, CHILLED WATER (30645-01) PC. NO'S 426-430, POTABLE WATER (COLD) (30654-01), PC. NO'S 437-443, FIREMAIN SYS (30658-01), PC. NO'S 451-455. DELETE: PC 434 INCORPORATES AEA M73, REV. C. ADDED: GEN NOTE NO. 27, TO TABLE (SH 1) MN STM SYS (30742-01), PC. NO'S 152 & 153, TO TABLE (SH 2) AUX EXH SYS (30745-01), PC. NO'S 400 THRU 407, SHIP STORES & SS REFRIG SYS (30644-01), PC. NO'S 15 & 18. DELETED: TABLE (SH 2) ITEM NO'S 245, 246, 247, 248. INCORPORATES AEA M127. TO UPDATE DESIGN REQUIREMENTS: DELETED: FROM TABLE "E", PIPING IN MACHY SPACES, ITEMS 73 THRU 80. REVISED: ITEMS 162, 163, 164 & 165 SOURCE CODES WERE 9-56-04474, 04475, 04476 & 04478 RESPECTFULLY. ADDED: ITEM NO'S 35, 84, 85, 86, 222, 261 THRU 264, 379 & 380. REMARKS TO FEED, FEED TREATMENT & TRANSFER SYS (30744-01) AND FRESH WATER DRAIN COLLECT SYS (30747-02).	RCC 11-2-71 JEG				22 NOV 1971	
SHT #2 REV 'F'	F	CORRECTIVE ACTION DESIGN: MATERIAL CHANGES: ADDED: ITEM NOS 129, 130, 131 & 132. REVISED: ITEM NO. 125 TO BE INCLUDED IN REMARKS FOR ITEMS 129, 130, 131 & 132. INCORPORATES AEA-M194 CORRECTIVE ACTION DESIGN: TO PROVIDE FOR ANTI-SWEAT INSULATION FOR MAIN CIRC WATER OVBD DISCH. MATERIAL CHANGES: ADDED: ITEM NO. 118. INCORPORATES AEA M-291. CORRECTIVE ACTION DESIGN: ADDED: NOTE IN REMARKS COLUMN FOR F.O. SERVICE PIPING INSULATION "SHEET METAL GUARDS TO BE PROVIDED OVER INSULATION IN BURNER REMOVAL AREA". INCORPORATES AEA M343. CORRECTIVE ACTION DESIGN: ADDED: GEN NOTE NO.28. INCORPORATES AEA-M303 CORRECTIVE ACTION DESIGN: DELETED: ITEM NOS.1,2 & AT TABLE 'D', -20°F TO -30°F. REASON: NOT APPLICABLE, LOWEST TEMP IN THIS SYSTEM IS -10° ADDED: GEN NOTE NO.29	FAE 3/13/72				16 MAR 1972	
11-F 20-B 5-H 13-C 24-A SHT 2	G	CORRECTIVE ACTION DESIGN: REVISED: REMARKS COLUMN FOR A.S.W. SYSTEM INCORPORATES AEA M-435 & M452. ITEMS 110 THRU 114 REVISED NOTE IN REMARKS COLUMN. ADDED:-GEN. NOTE 30. INCORPORATES AEA M-487. MATERIAL CHANGE:- ADDED: ITEMS 28, 29 (MACHY) AND 456.	F.A.L. 4/7/72 JEG				10 MAY 1972	

REVISIONS	O	A	B	C	D	E	F	G
TO	3/2/70	4/10/70	6/22/70	6/8/71	8/4/71	11/22/71	3/17/72	5/24/72
LYKES								
M.A.(WASH)								
M.A.(YARD)								
J.J.HENRY(YARD)								
J.J.HENRY(HOME)								
ABS								
USCG								
USPHS								
871								
872								
873								
874								
875								
876								
TOTAL NRO'S FS	13	16	15	15	15	13	13	13
TOTAL NRO'S HS								
TOTAL RO								

SHOP ORDER	REV	DATE	DEPT	QTY FS	QTY HS
30212	A	4-15-0	800		4
			820		
30212	B	6-23-0	826		
"	C	6-14-1	829		
	D	8-5-1	830		7
			841		1
			842		1
			843		1
			844		
			899		
			LIBRARY		5
			TOTAL		82

MATERIAL SECTION SIGNATURE AREA

O	A	B	C	D	E	F	G
—	HN 4/17/70	HR 6/26/70	Em 6/15/71	Em 7/28/71	Em 11/4/71	Em 3/14/72	Em 4-14-72

M.A. HULL NO.	Q div HULL NO.	NAME OF VESSEL
243	20	TILLIE LYKES
242	19	ALMERIA LYKES
241	18	DOCTOR LYKES

REFERENCES

NO.	TITLE	Q div DWG NO.	M.A. DWG NO.
26	BARGE ELEVATOR HYDRAULIC SYS	30617-01	241-S27-00-35
25	EMERG & GEN. SERVICE	30777-01	241-S61-01-03
24	AUX SEA WATER SYS	30775-01	241-S48-05-05
23	CONTROL AIR SYS	30749-01	241-S51-03-03
22	TURB & MISC DRAINS	30747-04	241-S48-08-16
21	CONTAMINATED DRAINS	30747-03	241-S48-08-15
20	F.W. DRAIN COLLECTION	30747-02	241-S48-08-14
19	H.P. STEAM DRAIN SYS	30747-01	241-S48-10-25
18	AUX EXH & ESCAPE SYS	30745-01	241-S48-10-22
17	BOILER BLOW & SAMPLING	30744-03	241-S48-01-08
16	CONDENSATE SYS	30744-02	241-S48-02-02
15	FEED, FEED TREAT & XFER SYS	30744-01	241-S48-02-01
14	GLAND SEAL & EXH.	30743-02	241-S48-10-09
13	H.P. & L.P. AUX STEAM SYS	30743-01	241-S48-10-15
12	MAIN STEAM	30742-01	241-S48-10-08
11	L.O. FILL XFER, PURIF, STERN TUBE L.O. SYS.	30726-02	241-S45-03-01
10	MN L.O. SYS	30726-01	241-S48-14-01
9	BOILER AIR & EXH SYS	30722-01	241-S51-03-02
8	MN & SSTG CIRC SYS	30721-01	241-S48-05-01
7	FIREMAIN	30658-01	241-S48-03-01
6	PLUMBING DRAINS	30656-01	241-S48-08-07
5	DISTILLING PLANT	30655-01	241-S48-11-01
4	POTABLE WATER	30654-01	241-S48-04-07
3	SERVICE STEAM SYS	30646-01	241-S48-10-01
2	CHILLED WATER SYS	30645-01	241-S48-04-01
1	SHIPS STORES REFRIG SYS	30644-01	241-S59-01-02

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

REV	Q div CONTR CHG NO.	M.A. CONTR CHG NO.	CONTR CHG APPLIC

MICROFILMED
G 12-28-73

SEABEE

LYKES LINES

SEA BARGE CLIPPER

MARITIME ADMINISTRATION
DESIGN C8-S-82a
SINGLE SCREW CARGO VESSEL
LYKES BROS. STEAMSHIP CO., INC.
DESIGN B5-L-M3

Q div DWG NO. 30748-11X2

GENERAL DYNAMICS
Quincy Division
QUINCY, MASSACHUSETTS 02169

DFTMN RES
DSGNR RCC
SUPV
ENGR NOT REQ'D

INSULATION & LAGGING - PIPING & EQUIPMENT

APPROVED DATE 3/2/70
FOR GENERAL DYNAMICS QUINCY DIVISION

APPROVAL LTR DATED
ABS NOT REQ'D
USCG 19 MARCH 70
USPHS NOT REQ'D

CODE IDENT NO.	MARITIME ADMINISTRATION DWG NO.	REV
25316	241-S39-02-02	G

SCALE: NONE
SHEET 1 OF 2

KEY PLAN

AREA = 23 SQ FT

DWG. NO. 30748-11X2
Q div DWG NO. 30748-11X2

TYPE I/YARD

	PIPE LAGGING			
RIAL	SPEC	ASBESTOS CLOTH QSN	ADHESIVE CEMENT QSN	REMARKS
S. CLOTH S CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	HOT
~~Q'D~~				SW SUPPLY NOTE 1E
~~Q'D~~				
~~Q'D~~				~~DISTILLATE PUMP SUCT & DISCHARGE AND DISTILLATE DISCHARGE TO DISTILLATE WATER TANK NOTE 1E~~
~~Q'D~~				
~~Q'D~~				
~~Q'D~~				~~BRINE PUMP SUCTION & DISCHARGE NOTE 1E~~
~~Q'D~~				
~~S CLOTH E CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
S CLOTH E CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	SEA WATER HEATER DRAINS TO CONDENSER
S CLOTH E CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
S CLOTH E CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
S CLOTH E CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	AIR EJECTOR AFT COND DRAINS
S CLOTH E CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
S CLOTH E CEMENT	SS-C-466 MIL A 3316	9-56-03757	9-56-02127	AIR EJECTOR DISCH
Q'D				SEE NOTES 1E, 5, 6 & 7 FOR SERVICE AND ACCOMMODATION AREAS SEE PANEL 21 - 24 SHEET 2 E
Q'D				
Q'D				
Q'D				
Q'D				
Q'D				
Q'D				
OS CLOTH VE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
Q'D				SEE NOTES 1E, 1F, 5, 6, 7 & 16 NORMALLY DRY SYSTEM INSULATE FOR ANTI-SWEAT WHERE DRIPPING WOULD BE OBJECTIONABLE — FOR SERVICE & ACCOMMODATION AREAS SEE PANEL 21-24 SHEET 2 E
Q'D				
Q'D				
Q'D				
Q'D				
Q'D				
OS CLOTH VE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
OS CLOTH VE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
OS CLOTH E CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	BARGE CLEANING PIPING FROM THE SEAWATER HEATERS IN MACHY SPACE TO THE FIRE STATIONS ON UPPER DK, MAIN DK, & LOWER DK AFT USED FOR BARGE CLEANING. G
OS CLOTH E CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
S CLOTH E CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
S CLOTH E CEMENT	SS-C-466 MIL A 3316	9-56-03757	9-56-02127	
S CLOTH E CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
Q'D				SEE NOTES 1E, 1F, 7 & 16.
Q'D				
Q'D				
EQ'D			9-88-00428	OVBD DISCH PIPING & VALVE (ANTI-SWEAT)
S CLOTH VE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	COMBINED LUBE OIL BEARING DRAINS
S CLOTH VE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
S CLOTH VE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	FOR REMARKS, SEE ITEM 129 THRU 132 INCL.
S CLOTH VE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	MAIN SUMP TO L.O. SERV. PUMP
S CLOTH VE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	L.O. SERV. PUMP DISCH THRU COOLER
S CLOTH VE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
CLOTH CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	DO NOT LAG THE TWO (2) PER BRG
CLOTH CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	ORIFICE FLANGES ON FWD & AFTER -
CLOTH CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	MOST LINE BRGS
CLOTH CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	LINE SHAFT BRG LUBE OIL SYSTEM

241-S39-02-02 SH 1 | G | 3

PIPING SYSTEM	ITEM NO	PIPE TEMP	PIPE IPS	LIN FT OF PIPE	PIPE INSULATION MATERIAL	SPEC	THK	QSN	PIPE LAGGING MATERIAL	SPEC	ASBESTOS CLOTH QSN	ADHESIVE CEMENT QSN	REMARKS
SHIPS STORES & S.S. REFRIGERATON SYS DIA. NO. 30644-01 S59-01-02 F	~~1~~	~~-40°~~	~~1/2 O.D.~~		~~FOAMGLASS~~	~~HH-I-551~~	~~3"~~	~~9-56-05004 9-56-05028~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	NOTE 8, 9, 25, 26
	~~2~~	~~-40°~~	~~7/8 O.D.~~		~~FOAMGLASS~~	~~HH-I-551~~	~~3"~~	~~9-56-05008 9-56-05032~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	3	-20°	1/2 O.D.		FOAMGLASS	HH-I-551	2 1/2"	9-56-04092 M/F	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	4	-20°	3/8 O.D.		FOAMGLASS	HH-I-551	2 1/2"	9-56-04092 M/F	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	5	-20°	7/8 O.D.		FOAMGLASS	HH-I-551	2 1/2"	9-56-04092 M/F	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	6	35°	1/2 O.D.		FOAMGLASS	HH-I-551	1 1/2"	9-56-05004	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	7	35°	3/8 O.D.		FOAMGLASS	HH-I-551	1 1/2"	9-56-05004	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
C	8	-20°	1 1/8 O.D.		FOAMGLASS	HH-I-551	2 1/2	9-56-04092 M/F	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	DISCH FROM PILOT OPER EXP VLV TO CHILLER
	9	-20°	1 5/8 O.D.		FOAMGLASS	HH-I-551	2 1/2	9-56-04092 M/F	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	10	35°	1/4 O.D.		FOAMGLASS	HH-I-551	1 1/2	9-56-04092 M/F	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	CHILLER TO COMPRESSOR
	11	35°	7/8 O.D.		FOAMGLASS	HH-I-551	1 1/2	9-56-05006	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	12	35°	3 1/8 O.D.		FOAMGLASS	HH-I-551	1 1/2	9-56-05024	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	13	35°	4 1/8 O.D.		FOAMGLASS	HH-I-551	1 1/2	9-56-05032	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	14												
E	15								ASBESTOS CLOTH WIRE INSERTED	SS-C-466e	9-56-03768		SEE NOTE 27
D	16								ASBESTOS CLOTH PRE-APPLIED ADHESIVE	SS-C-466e	9-56-03770	—	USE AS ALTERNATE LAGGING WHERE APPLICABLE
	17								ASBESTOS CLOTH FOR PORTABLE PADS	SS-C-466e	9-56-03775	—	LINT FREE CLOTH FOR PORTABLE PADS
E	18								PAINT VAPOR BARRIER	MIL-P-876	9-56-03396		NOTE 8, 11, 13.
CHILLED WATER SYS DIA. NO. 30645-01 S48-04-01	19	42°	1/2		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06612 9-56-06224	NONE REQ'D				SUPPLY
	20	42°	3/4		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06613 9-56-06213	NONE REQ'D				FOR SERVICE & ACCOMMODATION AREA SEE PANEL 21 - 24 SHEET 2 E
	21	42°	1 1/4		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06615 9-56-06214	NONE REQ'D				
	22	42°	1 1/2		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06616 9-56-06222	NONE REQ'D				
	23	42°	2"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06617 9-56-06215	NONE REQ'D				
	24	42°	2 1/2		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06618 9-56-06215	NONE REQ'D				
	25	42°	3"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06619 9-56-06215	NONE REQ'D				
	26	42°	4"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06621 9-56-06581	NONE REQ'D				
	27	52°	1/2		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06612 9-56-06224	NONE REQ'D				RETURN
	28	52°	3/4		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06613 9-56-06213	NONE REQ'D				
	29	52°	1 1/4		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06615 9-56-06214	NONE REQ'D				
	30	52°	1 1/2		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06616 9-56-06222	NONE REQ'D				
	31	52°	2"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06617 9-56-06215	NONE REQ'D				
	32	52°	2 1/2		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06618 9-56-06215	NONE REQ'D				
	33	52°	3"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06619 9-56-06215	NONE REQ'D				
	34	52°	4"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06621 9-56-06581	NONE REQ'D				
E	35	42°	1"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06580	NONE REQ'D				
	36												
	37												
	38												
	39												
SERVICE STEAM DIA NO. 30646-01 S48-10-01	40	385°	1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04100	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	STEAM SUPPLY
	41	385°	3/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04101	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	42	385°	1"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04102	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	43	385°	1 1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04104	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	44	385°	2"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04330	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	45	210°	1/2		FIBER GLASS OWENS CORNING	MIL-I-22344	3/4	9-56-04394	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	CONDENSATE RETURN
	46	210°	3/4		FIBER GLASS OWENS CORNING	MIL-I-22344	1"	9-56-04445	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	47	210°	1"		FIBER GLASS OWENS CORNING	MIL-I-22344	1"	9-56-04446	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	48	210°	1 1/2		FIBER GLASS OWENS CORNING	MIL-I-22344	1"	9-56-04448	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	49												
	50												
	51												
	52												
	53												
POTABLE WATER SYSTEM DIAG. NO. 30654-01 S48-04-07	54	50°	3/8		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1/2	9-56-06379	NONE REQ'D				SEE NOTE 1E, 1F, 5, 6, 7 FOR PIPING INSIDE SERVICE & ACCOMMODATIONS AREA SEE PANEL 21 -24 SHEET 2 E
	55	50°	1/2		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1/2	9-56-06380	NONE REQ'D				
	56	50°	3/4		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1/2	9-56-06382	NONE REQ'D				
	57	50°	1"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1/2	9-56-06384	NONE REQ'D				
	58	50°	1 1/4		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1/2	9-56-06387	NONE REQ'D				COLD
	59	50°	2"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06617	NONE REQ'D				
	60	50°	2 1/2		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06618	NONE REQ'D				
	61	150°	3/8		FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2	9-56-04526	ASBESTOS CLOTH ASBESTOS CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	HOT
	62	150°	1/2		FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2	9-56-04344	ASBESTOS CLOTH ASBESTOS CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	63	150°	3/4		FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2	9-56-04345	ASBESTOS CLOTH ASBESTOS CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	64	150°	1"		FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2	9-56-04346	ASBESTOS CLOTH ASBESTOS CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	65	150°	1 1/4		FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2	9-56-04347	ASBESTOS CLOTH ASBESTOS CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	66	150°	1 1/2		FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2	9-56-04348	ASBESTOS CLOTH ASBESTOS CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	

TABLE "A" NOMINAL THICKNESS OF PIPE INSULATION

INSULATING MAT'L = MIL-I-22344 FIBEROUS GLASS (ONE PIECE SNAP-ON)

NOMINAL PIPE SIZE(INCHES)	DESIGN INTERNAL TEMP. RANGE 126 - 150	151 - 200	201 - 250	251 - 300	351 - 370
1/2"	1/2"	1/2"	3/4"	1"	1 1/2"
3/4"	1/2"	1/2"	1"	1"	1 1/2"
1"	1/2"	3/4"	1"	1"	1 1/2"
1 1/4 - 2"	1/2"	3/4"	1"	1 1/2"	1 1/2"
2 1/2-4 1/2	1/2"	3/4"	1"	1 1/2"	2"
5" - 6"	1/2"	3/4"	1 1/2"	1 1/2"	2"
8"	1/2"	1"	1 1/2"	1 1/2"	2"
10"	1/2"	1"	1 1/2"	2"	2"
12" & ABOVE	1"	1"	1 1/2"	2"	3"

TABLE "G" THICKNESS

DESIGN INTERNAL TEMPERATURE	HIGH TEMP INSULATION	MED. INSU
126°F TO 199°F		
200°F TO 299°F		1
300°F TO 399°F		
400°F TO 499°F		2
500°F TO 599°F		
600°F TO 699°F	1"	
700°F TO 799°F	1 1/2"	
800°F TO 899°F	2 1/2"	1
900°F TO 999°F	3"	

TABLE "B" NOMINAL THICKNESS OF PIPE INSULATION

INSULATION MAT'L = MIL-I-2781 GR III CLASS F (UNIBESTOS)

NOMINAL PIPE	DESIGN INTERNAL TEMPERATURE RANGE 371 - 399	400 - 499	500 - 599	600 - 699	700 - 799	800 - 899	900 - 999
1/2"	1 1/2"	1 1/2"	2"	2"	2 1/2"	3"	3 1/2"
3/4"	1 1/2"	1 1/2"	2"	2"	2 1/2"	3"	3 1/2"
1"	1 1/2"	1 1/2"	2"	2"	2 1/2"	3"	3 1/2"
1 1/4"	1 1/2"	2"	2"	2 1/2"	3"	3 1/2"	3 1/2"
1 1/2"	1 1/2"	2"	2"	2 1/2"	3"	3 1/2"	3 1/2"
2"	1 1/2"	2"	2"	2 1/2"	3"	3 1/2"	4"
2 1/2"	1 1/2"	2"	2 1/2"	3"	3 1/2"	3 1/2"	4"
3"	1 1/2"	2"	2 1/2"	3"	3 1/2"	3 1/2"	4"
4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"
5"	1 1/2"	2 1/2"	2 1/2"	3"	3 1/2"	4"	4 1/2"
6"	1 1/2"	2 1/2"	2 1/2"	3"	3 1/2"	4"	4 1/2"
8"	1 1/2"	2 1/2"	2 1/2"	3"	3 1/2"	4 1/2"	5"
10"	1 1/2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"
12"	1 1/2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5 1/2"

TABLE "C" NOMINAL THICKNESS OF PIPE INSULATION

ANTI - SWEAT INSULATION

THRU 5" IPS - FOAM PLASTIC MIL-P-15280 (ARMAFLEX)

OVER 5" IPS - FIBEROUS GLASS - MIL-I-22344

NOMINAL PIPE SIZE (INCHES)	DESIGN INTERNAL TEMPERATURE RANGE 30°F TO 50°F	50°F-125°F		
1/4" TO 1 1/4"	3/4"	1/2"		
1 1/2" TO 3"	1"	3/4"		
3 1/2" TO 5"	1 1/2"	3/4"		
6" TO 10"	1 1/2"	1"		
12" TO 24"	1 1/2"	1"		

TABLE "D" NOMINAL THICKNESS OF PIPE INSULATION

REFRIGERANT INSULATION - FOAM GLASS OR FOAM PLASTIC

NOMINAL PIPE SIZE	DESIGN INTERNAL-TEMPERATURE RANGE ~~-20°F TO -30°F~~	35°F TO -20°F	125°F TO 35°F
1/2"-4 1/2"	~~3"~~	2 1/2"	1 1/2"
5" TO 8"	~~3"~~	2 1/2"	2"
9" TO 24"	~~3 1/2"~~	3"	2"

F

TABLE "E" NOMINAL THICKNESS OF PIPE INSULATION

AIR CONDITIONING CHILLED WATER PIPING

THRU 5"IPS - FOAMED PLASTIC - MIL-P-15280 (ARMAFLEX)

OVER 5"IPS - SECTIONAL FIBEROUS GLASS - MIL-I-22344

E

~~PIPING IN MACHY SPACES~~		PIPING OUTSIDE MACHY SPACES	
~~PIPE SIZE~~	~~INSUL. THKNS~~	PIPE SIZE	INSUL. THKNS
~~1/4" TO 8"~~	~~2 1/2"~~	1/4" TO 4 1/2	1 1/2"

TABLE "F" NOMINAL THICKNESS OF PIPE INSULATION

EMER. DSL. GEN. SERV. SYS.

INSUL TYPE = ERCOMAT - MIL-I-16411

DSL EXH. PIPING NOT EXPOSED TO WEATHER

TEMPERATURE	INSULATION THICKNESS
950°F	4"

241-S39-02-02-SH 1 | G | 2

1. ALL PIPING, MAC
ARE EXCLUDED FR

FOR PIPING WITH
STRUCTURES TO W

PIPING EXPOSED
A FLUID IS NORM

CONCEALED AND E
INSULATION IN W

THICKNESS OF IN
NOT EXCEED 150°
SURFACES EXCLUD

(A) WHERE APPL

(B) MECHANICAL

(C) FUEL OIL P

(D) 125°F AND

(E) PIPING IN
SUPPLY AND

(F) PRESSURE G

(G) STEAM TRAP

E 2. REMOVABLE-REUSA
PARTICULARLY RE
REUSABLE (ONE P

COVERS AND/OR P
INSURE NON-INTE
OF TAKEDOWN JOI
BETWEEN THE PER
WHEN INSTALLED

WHEN INSTALLING
FELTED MATERIAL

3. THE INSULATION
INSULATION, LIN

4. MOLDED FIBROUS

5. WHERE PIPING PA
EACH LAYER. TH

6. PIPES BELOW FLO

7. WHERE ANTI-SWEA

8. THE PIPES THAT
AND COATED WITH

9. THE END JOINT O
THE PIPE NOT ON

10. THE CELLULAR GL
4 1/2" FROM INS

D 11. AT THE TIME OF
AFTER APPLICATI
OR ITEM 16.

12. HANGERS AND FAS
(#22 GAGE FED.

13. BENT PIPE, FITT
JOINTS FITTED T
INSTALLATION.
FITTED TIGHTLY
MANNER SIMILAR
OVER 1" WIDE AS

14. INSULATION SHAL
THE DESTRUCTION

15. INSULATION SHAL
INSPECTION.

16. INSULATION SHAL
WITH BILGE WATE

17. IN LIEU OF THER
TO ONE (1) PART

(A) APPLY SUCC

(B) 1" HEX #18

(C) SEE TABLE

18. MACHINERY INSUL
CEMENT REINFORC

19. WHERE REMOVABLE
SHALL OVERLAP T

D 20. LAGGING FOR PIP
GRADE U.G. STYL
CEMENT MIL-C-31

21. LAGGING SHOULD

22. ANY MATERIAL CO

23. ALL INSULATION

24. 1/8" THICK BY 1
WHERE WELDING I

25. REFRIGERANT SUP
MAY CAUSE DAMAG

26. PIPING LEADING

E 27. REMOVABLE REU
TEMPERATURES

F 28. HOT DIPPED GALV
ABRASION OR ME

GENERAL DYNAMICS, QUINCY DEC, 1973 8X
MA NO.241-539-02-02GD NO. 30748-11x2 FRAME 1 ② 3 4
Sheet 1 of 2

GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO.241-S39-02-02GD NO. 30748-11x2 FRAME 1 2 ③ 4
Sheet 1 of 2

20 19 18 17

PIPING SYSTEM	ITEM NO	PIPE TEMP	PIPE IPS	LIN FT OF PIPE	PIPE INSULATION				PIPE LAGGING				REMARKS
					MATERIAL	SPEC	THK	QSN	MATERIAL	SPEC	ASBESTOS CLOTH QSN	ADHESIVE CEMENT QSN	
	133												
L.O. FILL, XFER, PURIF&STERN TUBE L.O.SYS DIA # 30726-02 S45-03-01	134	160°	1 1/4		FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04397	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	LUBE OIL PURIF HEATER OUTLET TO PURIFIER
	135												
	136												
	137												
	138												
	139												
MAIN STEAM SYSTEM DIAG. NO. 30742-01 S48-10-08	140	537°-588°	3/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04369	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	CONTROL DESUPERHEATER OUTLET TO SUPHTR INLET & DRUM OUTLET TO SUPERHEATER INLET
	141	537°-588°	1 1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04372	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	142	537°-588°	4"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2 1/2	9-56-04134	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	143	537°-588°	6"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2 1/2	9-56-04137	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	BOILER DOWNCOMER PIPING
	144	950°	1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	3 1/2	9-56-04175	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	ALL OTHERS
	145	950°	3/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	3 1/2	9-56-04176	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	146	950°	3"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	4"	9-56-04207	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	147	950°	4"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	4 1/2"	9-56-04234	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	148	950°	6"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	4 1/2	9-56-04237	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	149	950°	8"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	5"	9-56-04263	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	150	950°	10"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	5"	9-56-04264	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	151	537°-588°	8"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2-1/2	9-56-04138	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	BOILER DOWNCOMER PIPING
	152	950°	2-1/2"	35'	UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	4"	9-56-04206	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9 56 02127	MN STM BRANCHES TO SSTG
	153	950°	5"	30'	UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	4-1/2"	9-56-04236	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9 56 02127	EMERG OPER-LP TURB
	154												
	155												
H.P. & L.P. AUX STEAM SYSTEM DIAG. NO. 30743-01 S48-10-15	156	570°	1/4		FELT GLASS	MIL-I-16411	2"	9-56-04066	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	DESUPERHEATED STEAM (BOILER PRESS.)
	157	570°	1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04368	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	158	570°	3/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04369	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	159	570°	1"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04370	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	160	570°	1 1/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04371	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	161	570°	1 1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04372	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	162	570°	2"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04373	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	163	570°	2 1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2 1/2	9-56-04131	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	164	570°	3"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2 1/2	9-56-04132	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	165	570°	4"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2 1/2	9-56-04134	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	166	370°	8"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04111	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	DESUPERHEATED STEAM TO AUX COND.
	167	420°	1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04100	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	140PSI REDUCING STA TO WHISTLE & AIR EJECTORS
	168	420°	3/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04101	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	169	420°	1"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04102	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	170	420°	1 1/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04371	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	150PSI STM ATOMIZATION
	171	420°	1 1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04372	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	172	420°	2"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04373	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	173	385°	1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04100	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	160PSI STEAM MAIN, 50PSI STEAM MAIN & MAKE UP STEAM TO AUX EXHAUST
	174	385°	3/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04101	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	175	385°	1"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04102	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	176	385°	1 1/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04103	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	177	385°	1 1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04104	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	178	385°	2"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04330	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	179	385°	2 1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04331	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	180	385°	3"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04105	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	181	385°	4"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04107	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	182	385°	5"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04109	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	183	385°	8"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04111	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	184												
	185												
	186												
	187												
	188												
~~GLAND SEAL & EXHAUST SYS DIAG. NO. 30743-02 S48-10-09~~ C FOR REQUIREMENTS SEE PANEL 15 SH 2	~~189~~	~~416°~~	~~1 1/4~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~2"~~	~~9-56-04371~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	SEE NOTE 1, 3, 20, 21, 24 & 22
	~~190~~	~~285°~~	~~1 1/2~~		~~FIBERGLASS OWENS CORNING OR EQUAL~~	~~MIL-I-22344~~	~~1 1/2~~	~~9-56-04282~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~191~~	~~390°~~	~~1 1/2~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~1 1/2~~	~~9-56-04104~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~192~~	~~370°~~	~~2"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~1 1/2~~	~~9-56-04330~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~193~~	~~600°~~	~~2"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~2 1/2~~	~~9-56-04130~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~194~~	~~950°~~	~~2"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~4"~~	~~9-56-04205~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~195~~	~~400°~~	~~2 1/2~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~2"~~	~~9-56-04374~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~196~~	~~600°~~	~~2 1/2~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~3"~~	~~9-56-04475~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~197~~	~~630°~~	~~2 1/2~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~3"~~	~~9-56-04475~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~198~~	~~400°~~	~~3"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~2"~~	~~9-56-04375~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	

16 15 14 13

PIPING SYSTEM	ITEM NO	PIPE TEMP	PIPE IPS	LIN FT OF PIPE	PIPE INSULATION				PIPE LAGGING				REMARKS
					MATERIAL	SPEC	THK	QSN	MATERIAL	SPEC	ASBESTOS CLOTH QSN	ADHESIVE CEMENT QSN	
POTABLE WATER SYSTEM DIAG. NO. 30654-01 S48-04-07	67	150°	2"		FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2	9-56-04349	ASBESTOS CLOTH ASBESTOS CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	HOT
	68												
	69												
	70												
	71												
	72												
DISTILLING PLANT DIAG. NO. 30655-01 S48-11-01	~~73~~	~~85°~~	~~1/2~~		~~ARMAFLEX ARMSTRONG OR EQUAL~~	~~MIL-P-15280~~	~~1/2~~	~~9-56-06380~~	~~NONE REQ'D~~				SW SUPPLY NOTE 1E
	~~74~~	~~85°~~	~~4"~~		~~ARMAFLEX ARMSTRONG OR EQUAL~~	~~MIL-P-15280~~	~~3/4~~	~~9-56-06621~~	~~NONE REQ'D~~				
	~~75~~	~~95°~~	~~1"~~		~~ARMAFLEX ARMSTRONG OR EQUAL~~	~~MIL-P-15280~~	~~1/2~~	~~9-56-06053~~	~~NONE REQ'D~~				~~DISTILLATE PUMP SUC AND DISTILLATE DISC DISTILLATE WATER TA NOTE 1E~~
	~~76~~	~~95°~~	~~1 1/2~~		~~ARMAFLEX ARMSTRONG OR EQUAL~~	~~MIL-P-15280~~	~~3/4~~	~~9-56-06616~~	~~NONE REQ'D~~				
	~~77~~	~~95°~~	~~2"~~		~~ARMAFLEX ARMSTRONG OR EQUAL~~	~~MIL-P-15280~~	~~3/4~~	~~9-56-06617~~	~~NONE REQ'D~~				
	~~78~~	~~121°~~	~~3"~~		~~ARMAFLEX ARMSTRONG OR EQUAL~~	~~MIL-P-15280~~	~~3/4~~	~~9-56-06619~~	~~NONE REQ'D~~				~~BRINE PUMP SUCTION NOTE 1E~~
	~~79~~	~~121°~~	~~4"~~		~~ARMAFLEX ARMSTRONG OR EQUAL~~	~~MIL-P-15280~~	~~3/4~~	~~9-56-06621~~	~~NONE REQ'D~~				
	~~80~~	~~121°~~	~~6"~~		~~FIBERGLASS OWENS CORNING OR EQUAL~~	~~MIL-I-22344~~	~~1"~~	~~9-56-04454~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	81	186°	1"		FIBEROUS GLASS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04396	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	SEA WATER HEATER DR CONDENSER
	82	186°	1 1/2"		FIBEROUS GLASS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04398	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	83	186°	2 1/2"		FIBEROUS GLASS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04400	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	84	200°	1/2"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2"	9-56-04344	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	AIR EJECTOR AFT CO
	85	200°	1"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04396	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	86	420°	1-1/2"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04372	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL A 3316	9-56-03757	9-56-02127	AIR EJECTOR DIS
	87												
	88												
PLUMBING SYSTEM DIAG. NO. 30656-01 S48-08-07	89	60°	3/4		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1/2	9-56-06382	NONE REQ'D				SEE NOTES 1E, 5, 6 FOR SERVICE AND ACCOMMODATION A PANEL 21 - 24 SHE E
	90	60°	1"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1/2	9-56-06384	NONE REQ'D				
	91	60°	1 1/2		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06616	NONE REQ'D				
	92	60°	2"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06617	NONE REQ'D				
	93	60°	2 1/2		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06618	NONE REQ'D				
	94	60°	3"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06619	NONE REQ'D				
	95	60°	4"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06621	NONE REQ'D				
	96	60°	6"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04454	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	97												
	98												
	99												
	100												
	101												
FIREMAIN DIAG. NO. 30658-01 S48-03-01	102	60°	1 1/2		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1/2	9-56-06616	NONE REQ'D				SEE NOTES 1E, 1F, NORMALLY DRY SYS INSULATE FOR ANT WHERE DRIPPING W OBJECTIONABLE — F & ACCOMMODATION PANEL 21-24 SHE E
	103	60°	2"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06617	NONE REQ'D				
	104	60°	2 1/2		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06618	NONE REQ'D				
	105	60°	3"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06619	NONE REQ'D				
	106	60°	4"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06621	NONE REQ'D				
	107	60°	5"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06623	NONE REQ'D				
	108	60°	6"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04454	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	109	60°	8"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04456	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	110	200°	2 1/2"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04400	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	BARGE CLEANING F FROM THE SEAWATE IN MACHY SPACE TO STATIONS ON UPPER & LOWER DK AFT U BARGE CLEANING.
	111	200°	4"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04402	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	112	200°	5"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56 04403	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	113	200°	6"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04404	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL A 3316	9-56-03757	9-56-02127	
	114	200°	8"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04456	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
MAIN & SSTG CIRC SYSTEMS DIAG. NO. 30721-01 S48-05-01	115	75°/83°	2"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06617	NONE REQ'D				SEE NOTES 1E, 1F,
	116	75°/83°	3"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06619	NONE REQ'D				
	117	75°/83°	4"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06621	NONE REQ'D				
	118	VARIOUS	42"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1/2	9-56-04585	NONE REQ'D			9-88-00428	OVBD DISCH PIPING & SWEAT)
	119												
	120												
	121												
	122												
MN LUBE OIL SERVICE SYS. DIAG. NO. 30726-01 S48-14-01	123	160°	6"		FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04404	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	COMBINED LUBE OIL
	124	160°	4"		FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04402	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	125	160°	2 1/2	20'	FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04400	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	FOR REMARKS, SEE ITE 132 INCL.
	126	140°	8"		FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2	9-56-04358	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	MAIN SUMP TO L.O.
	127	140°	6"		FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2	9-56-04356	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	L.O. SERV. PUMP DIS COOLER
	128	140°	5"		FIBER GLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2	9-56-04355	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	129	160°	1"	70'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04396	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	DO NOT LAG THE TWO (
	130	160°	1 1/2"	215'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04398	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	ORIFICE FLANGES ON F
	131	160°	2"	85'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04399	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	MOST LINE BRGS
	132	160°	3"	65'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04401	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	LINE SHAFT BRG LUBE

GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO.241-S39-02-02GD NO. 30748-11x2 FRAME ① 2 3 4
Sheet 2 of 2

LAGGING		
ASBESTOS CLOTH QSN	ADHESIVE CEMENT QSN	REMARKS
9-56-03757	9-56-02127	DRAIN FROM WHISTLE
9-56-03757	9-56-02127	ALL OTHERS
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	~~ENTIRE SYSTEM~~ ALL CONTINUOUS DRAINS TO BE INSULATED AND LAGGED. FUNNEL DRAINS LOCATED ABOVE WALKING LEVELS TO BE INSULATED AND LAGGED FOR PERSONEL PROTECTION DOWN TO LEVEL. E
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	SEE NOTE 1D & 1G
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	FROM SALT WATER HEATER & DRAIN COOLER
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	L.P. BLEEDER DRAIN
9-56-03757	9-56-02127	TURBO-CASING DR & STM CHEST DRN
9-56-03757	9-56-02127	FROM GLAND SEAL
9-56-03757	9-56-02127	FROM CROSS OVER
9-56-03757	9-56-02127	SIDE WATER WALL HEADER DRAIN
9-56-03757	9-56-02127	1ST STAGE SSTG TURBINE DRAIN
9-56-03757	9-56-02127	SUPERHEATER HEADER DRAIN
9-56-03757	9-56-02127	FROM ASTERN THROTTLE & GUARDIAN VALVE
9-56-03757	9-56-02127	
9-56-03757	9-56-02127	1ST STAGE DRAIN
		FROM CONTROL AIR COMPRESSOR TO DEHYDRATOR
~~9-56-03757~~	~~9-56-02127~~	~~SEE NOTE 1D, 22~~
~~9-56-03757~~	~~9-56-02127~~	
~~9-56-03757~~	~~9-56-02127~~	

02 SH2 G 2

PIPING SYSTEM	ITEM NO.	PIPE TEMP	PIPE IPS	LIN FT OF PIPE	PIPE INSULATION				PIPE LAGGING				REMARKS
					MATERIAL	SPEC	THK	QSN	MATERIAL	SPEC	ASBESTOS CLOTH QSN	ADHESIVE CEMENT QSN	
~~GLAND SEAL & EXHAUST SYSTEM DIAG. NO. 30743-02 S48-10-09~~ C FOR REQUIREMENTS SEE PANEL 15	~~199~~	~~830°~~	~~3"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~3 1/2~~	~~9-56-04497~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	SEE NOTE 1, 3, 20, 21, 24 & 22
	~~200~~	~~600°~~	~~3"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~3"~~	~~9-56-04476~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~201~~	~~950°~~	~~3"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~4"~~	~~9-56-04207~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~202~~	~~212°~~	~~4"~~		~~FIBERGLASS OWENS CORNING OR EQUAL~~	~~MIL-I-22344~~	~~1"~~	~~9-56-04452~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~203~~	~~611°~~	~~4"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~3"~~	~~9-56-04478~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~204~~	~~650°~~	~~4"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~3"~~	~~9-56-04478~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~205~~	~~950°~~	~~4"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~4 1/2~~	~~9-56-04234~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~206~~	~~830°~~	~~4"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~4"~~	~~9-56-04209~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~207~~	~~400°~~	~~5"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~2 1/2~~	~~9-56-04136~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	208												
	209												
	210												
	211												
	212												
FEED, FEED TREATMENT & TRANSFER SYSTEM DIAG. NO. 30744-01 S48-02-01	213	284°	1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04444	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	SEE NOTE 1, ALL PIPING EXCEPT DISTILLED WTR TANK FEED PUMP SUCTION, DOCK FILL & DISC TO RESERVE FEED TK, RES FEED TK TO DISTILLED WTR TK & DFT, FW TRANS PUMP TO DISTILLING PLANT. E
	214	284°	1 1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04282	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	215	284°	2"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04283	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	216	284°	2 1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04284	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	217	402°	4"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04377	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	ECONOMIZER TO DRUM
	218	284°	4"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04287	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	219	284°	6"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04289	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	220	200°	8"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04456	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	221	284°	10"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	2"	9-56-04321	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
E	222	284°	3"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1-1/2"	9-56-04285	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	DFT RECIRC FROM MN FEED PMP
	223												
	224												
	225												
	226												
CONDENSATE SYS DIAG NO. 30744-02 S48-02-02	227	200°	1 1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04398	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	1 1/2 NIPPLE TO CN-108
	228	200°	4"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04402	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	FR 6"IPS TO DISTILLED WATER TANK
	229	200°	6"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04404	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	FR 1ST STAGE HEATER TO DFT NOTE I
	230												
	231												
	232												
	233												
	234												
BOILER BLOW-DOWN & SAMPLE COOLER SYS DIAG NO. 30744-03 S48-01-08	235	212°	2"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04449	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	236	553°	3/8		GLASS FELT	MIL-I-16411	2"	9-56-04066	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	237	553°	1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04368	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	238	553°	1 1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2 1/2	9-56-04129	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	239	553°	3/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04369	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	240												
	241												
	242												
	243												
	244												
AUX EXHAUST SYS DIAG. NO. 30745-01 S48-10-22 E	~~245~~	~~420°~~	~~8"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~2 1/2~~	~~9-56-04138~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	~~L.P. BLEEDER TO FIRST STAGE HEATER~~
	~~246~~	~~420°~~	~~10"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~2 1/2~~	~~9-56-04139~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~247~~	~~420°~~	~~12"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~2 1/2~~	~~9-56-04140~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	~~248~~	~~420°~~	~~14"~~		~~UNIBESTOS PITTS CORNING OR EQUAL~~	~~MIL-I-2781~~	~~3 1/2~~	~~9-56-04191~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	249	288°	1/4		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04392	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	ALL OTHERS E
	250	288°	1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04444	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	251	288°	3/4		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04445	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	252	288°	2"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04283	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	253	288°	2 1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04284	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	254	288°	3"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04285	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	255	288°	4"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04287	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	256	288°	5"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04288	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	257	288°	6"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04289	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	258	288°	8"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04290	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	259	288°	12"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	2"	9-56-04322	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	260												
E CONTINUED ON PANEL 20 SHEET 2	261	700°	2-1/2"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1-1/2"	9-56-04331	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	BOILER SAFETY RELIEF VLV PIPING-INSULATE MACH RM & DECKS ABOVE. INSULATE FOR PERSONNEL PROTECTION ONLY
	262	700°	3"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1-1/2"	9-56-04105	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	263	700°	4"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1-1/2"	9-56-04107	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	264	700°	8"		UNIBESTOS PITTS CORNING OR EQUAL	MIL I 2781	1-1/2"	9-56-04111	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	

DWG NO. 30748-11 X 2 SHEET 2

MICROFILMED
G 12-28-73

MARITIME ADMINISTRATION DWG NO.
241-S39-02-02
Q div DRAWING NO.
30748 - 11 X 2
REV G
SCALE: NONE
SHEET 2 OF 2

AREA=26.5 SQ FT

TYPE I / YARD

14 13 12 11

PIPE INSULATION				PIPE LAGGING				
MATERIAL	SPEC	THK	QSN	MATERIAL	SPEC	ASBESTOS CLOTH QSN	ADHESIVE CEMENT QSN	REMARKS
ERGLASS OWENS RNING OR EQUAL	MIL-I-22344	3/4"	9-56-04396	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	INSULATE FOR PERSONNEL PROTECTION ONLY WHERE PIPE CAUSES LESS THAN A 36" WIDE PASSAGEWAY – UPPER DECK – AT FR112-115 & 124-128 POPT & STBD D
ERGLASS OWENS RNING OR EQUAL	MIL-I-22344	3/4"	9-56-04399	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
ERGLASS OWENS RNING OR EQUAL	MIL-I-22344	3/4"	9-56-04402	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
BESTOS PITTS RNING OR EQUAL	MIL-I-2781	1-1/2"	9-56-04102	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	F O PIPING FROM HEATERS TO HEADERS & COLD OIL RETURN SHEET METAL GUARDS TO BE PROVIDED OVER INSULATION IN BURNER REMOVAL AREA F
BESTOS PITTS RNING OR EQUAL	MIL-I-2781	1-1/2"	9-56-04103	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
BESTOS PITTS RNING OR EQUAL	MIL-I-2781	1-1/2"	9-56-04104	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
BESTOS PITTS RNING OR EQUAL	MIL-I-2781	1-1/2"	9-56-04330	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
BESTOS PITTS RNING OR EQUAL	MIL-I-2781	1-1/2"	9-56-04105	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
AFLEX ARMSTRONG EQUAL	MIL-P-15280	3/4"	9-56-06612	NOT REQ'D				ANTI-SWEAT INSULATION SHALL BE APPLIED TO ASW COOLING SUCTION PIPING ABOVE THE 9'-6" GRATING LEVEL ONLY. ANTI-SWEAT INSULATION SHALL BE APPLIED ON THE ASW PIPING TO AND FROM THE SS AIR COMPRESSOR 1 & 2 AIR COOLERS INCLUDING AIR COOLERS ANTI-SWEAT INSULATION SHALL BE APPLIED TO ASW RETURN PIPING FROM THE HEAT EXCHANGERS (BARGE ELEV. RM. P&S) DOWN TO THE DECK. G
AFLEX ARMSTRONG EQUAL	MIL-P-15280	3/4"	9-56-06613	NOT REQ'D				
AFLEX ARMSTRONG EQUAL	MIL-P-15280	3/4"	9-56-06614	NOT REQ'D				
AFLEX ARMSTRONG EQUAL	MIL-P-15280	3/4"	9-56-06615	NOT REQ'D				
AFLEX ARMSTRONG EQUAL	MIL P 15280	1"	9-56-06562	NOT REQ'D				
AFLEX ARMSTRONG EQUAL	MIL-P-15280	1"	9-56-06563	NOT REQ'D				
AFLEX ARMSTRONG EQUAL	MIL-P-15280	1"	9-56-06564	NOT REQ'D				
AFLEX ARMSTRONG EQUAL	MIL-P-15280	1"	9-56-06565	NOT REQ'D				
AFLEX ARMSTRONG EQUAL	MIL-P-15280	1-1/2"	9-56-06587	NOT REQ'D				
AFLEX ARMSTRONG EQUAL	MIL-P-15280	1-1/2"	9-56-06589	NOT REQ'D				
ERGLASS OWENS RNING OR EQUAL	MIL-I-22344	1-1/2"	9-56-04289	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
BESTOS PITTS NING OR EQUAL	MIL-I-2781	3"	9-56-04474	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	GLAND VENT - HP TURB - FWD
BESTOS PITTS NING OR EQUAL	MIL-I-2781	3 1/2	9-56-04512	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
BESTOS PITTS NING OR EQUAL	MIL-I-2781	3 1/2	9-56-04499	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
BESTOS PITTS NING OR EQUAL	MIL-I-2781	3 1/2	9-56-04501	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
BESTOS PITTS NING OR EQUAL	MIL-I-2781	2"	9-56-04373	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	GLAND VENT - HP TURB - AFT
BESTOS PITTS NING OR EQUAL	MIL-I-2781	3"	9-56-04475	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	GLAND VENT - LP TURB - FWD
BESTOS PITTS NING OR EQUAL	MIL-I-2781	1 1/2	9-56-04331	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	GLAND VENT - LP TURB - AFT
BESTOS PITTS NING OR EQUAL	MIL-I-2781	3 1/2	9-56-04497	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	GLAND SEAL - HP TURB - FWD
BESTOS PITTS NING OR EQUAL	MIL-I-2781	2"	9-56-04375	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	GLAND SEAL - HP TURB - AFT
BESTOS PITTS NING OR EQUAL	MIL-I-2781	3"	9-56-04478	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	GLAND SEAL - LP TURB - FWD
ERGLASS OWENS NING OR EQUAL	MIL-I-22344	2"	9-56-04315	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	VALVE STEM LEAKOFF
ERGLASS OWENS NING OR EQUAL	MIL-I-22344	1 1/2	9-56-04283	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	GLAND SEAL - LP TURB - AFT
BESTOS PITTS NING OR EQUAL	MIL-I-2781	4"	9-56-04205	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	INLET STEAM TO REGULATOR
BESTOS PITTS NING OR EQUAL	MIL-I-2781	4"	9-56-04209	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	STEAM DUMP TO CONDENSATE
ERGLASS OWENS NING OR EQUAL	MIL-I-22344	1"	9-56-04447	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	SSTG LEAK-OFF PIPING
ERGLASS OWENS NING OR EQUAL	MIL-I-22344	1"	9-56-04448	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316	9-56-03757	9-56-02127	
ERGLASS OWENS NING OR EQUAL	MIL-I-22344	1"	9-56-04450	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316	9-56-03757	9-56-02127	
ERGLASS OWENS NING OR EQUAL	MIL-I-22344	1"	9-56-04451	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316	9-56-03757	9-56-02127	
BESTOS PITTS NING OR EQUAL	MIL-I-2781	1 1/2	9-56-04100	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316	9-56-03757	9-56-02127	MAIN ENGINE GLAND
BESTOS PITTS NING OR EQUAL	MIL-I-2781	1 1/2	9-56-04101	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316	9-56-03757	9-56-02127	SEAL DUMP
BESTOS PITTS NING OR EQUAL	MIL-I-2781	2"	9-56-04375	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316	9-56-03757	9-56-02127	
BESTOS PITTS RNING OR EQUAL	MIL-I-2781	2"	9-56-04377	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316	9-56-03757	9-56-02127	
BERGLASS OWENS RNING OR EQUAL	MIL-I-2781	1"	9-56-04446	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316	9-56-03757	9-56-02127	GLAND EXHAUST - LOW POINT DRAINS
BERGLASS OWENS RNING OR EQUAL	MIL-I-22344	1-1/2"	9-56-04283	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316	9-56-03757	9-56-02127	DFT VENT
ERGLASS OWENS RNING OR EQUAL	MIL-I-22344	1"	9-56-04452	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316	9-56-03757	9-56-02127	VENT FROM FWDC TANK
MAFLEX ARMSTRONG EQUAL	MIL-P-15280	1"	9-56-06562	NONE REQ'D				FOR IDENTIFICATION OF PIPE & THICKNESS OF INSULATION REQUIRED SEE APPLICABLE PIPING MODULE PLAN 30206-200, 30207-200, 30516-200, 30517-200, 30606-200 & 30607-200
MAFLEX ARMSTRONG EQUAL	MIL-P-15280	1"	9-56-06563	NONE REQ'D				
MAFLEX ARMSTRONG EQUAL	MIL-P-15280	1 1/2	9-56-06583	NONE REQ'D				
MAFLEX ARMSTRONG EQUAL	MIL-P-15280	1/2	9-56-06545	NONE REQ'D				
MAFLEX ARMSTRONG EQUAL	MIL-P-15280	1"	9-56-06565	NONE REQ'D				
MAFLEX ARMSTRONG EQUAL	MIL-P-15280	1 1/2	9-56-06585	NONE REQ'D				
MAFLEX ARMSTRONG EQUAL	MIL-P-15280	1"	9-56-06567	NONE REQ'D				
MAFLEX ARMSTRONG EQUAL	MIL-P-15280	1 1/2	9-56-06587	NONE REQ'D				
MAFLEX ARMSTRONG EQUAL	MIL-P-15280	1/2	9-56-06379	NONE REQ'D				
MAFLEX ARMSTRONG EQUAL	MIL-P-15280	1/2	9-56-06380	NONE REQ'D				
MAFLEX ARMSTRONG EQUAL	MIL-P-15280	1/2	9-56-06053	NONE REQ'D				

10 9 8 7

PIPING SYSTEM	ITEM NO	PIPE TEMP	PIPE IPS	LIN FT OF PIPE	PIPE INSULATION				PIPE LAGGING				REMARKS
					MATERIAL	SPEC	THK	QSN	MATERIAL	SPEC	ASBESTOS CLOTH QSN	ADHESIVE CEMENT QSN	
H.P. STEAM DRAIN SYSTEM DIAG. NO. 30747-01 S48-10-25	265	360°	1 1/4		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04281	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	DRAIN FROM WHISTLE
	266	240°	3/4		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04445	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	ALL OTHERS
	267	240°	1 1/4		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04447	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	268	240°	1 1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04448	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	269	240°	2"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04449	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	270	240°	3"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04451	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466	9-56-03757	9-56-02127	
	271												
	272												
	273												
	274												
	275												
FRESH WATER DRAIN COLLECTING SYSTEM DIAG. NO. 30747-02 S48-08-14	276	212°	1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04394	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	~~ENTIRE SYSTEM~~ ALL CONTINUOUS DRAINS TO BE INSULATED AND LAGGED. FUNNEL DRAINS LOCATED ABOVE WALKING LEVELS TO BE INSULATED AND LAGGED FOR PERSONEL PROTECTION DOWN TO LEVEL. E
	277	212°	3/4		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04446	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	278	212°	1 1/4		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04447	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	279	212°	1 1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04448	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	280	212°	2"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04449	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	281	212°	2 1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04450	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	282	212°	4"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04452	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	283												
	284												
	285												
	286												
	287												
CONTAMINATED DRAIN SYSTEM DIAG. NO. 30747-03 S48-08-15	288	280°	1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04444	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	SEE NOTE 1D & 1G
	289	280°	3/4		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04445	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	290	280°	1"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04446	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	291	280°	1 1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04282	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	292	280°	2"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04283	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	293	180°	1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2	9-56-04344	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	FROM SALT WATER HEATER & DRAIN COOLER
	294	180°	1 1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4	9-56-04398	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	295												
	296												
	297												
	298												
	299												
TURBINE & MISC. DRAINS DIAG. NO. 30747-04 S48-08-16	300	220°	1"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04446	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	L.P. BLEEDER DRAIN
	301	285°	1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04444	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	TURBO-CASING DR & STM CHEST DRN
	302	380°	3/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04101	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	FROM GLAND SEAL
	303	470°	3/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04369	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	FROM CROSS OVER
	304	530°	3/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04369	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	SIDE WATER WALL HEADER DRAIN
	305	650°	1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04368	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	1ST STAGE SSTG TURBINE DRAIN
	306	950°	3/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	3 1/2	9-56-04176	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	SUPERHEATER HEADER DRAIN
	307	950°	1"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	3 1/2	9-56-04177	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	FROM ASTERN THROTTLE & GUARDIAN VALVE
	308	950°	1 1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	3 1/2	9-56-04179	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	309	950°	2"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	4"	9-56-04205	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	1ST STAGE DRAIN
	310												
	311												
	312												
	313												
	314												
CONTROL AIR SYSTEM DIAG. NO. 30749-01 S51-03-03	315	115°	1 1/2		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4	9-56-06616	NONE REQ'D				FROM CONTROL AIR COMPRESSOR TO DEHYDRATOR
	316												
	317												
	318												
	319												
	320												
AUXILIARY SEA WATER SYS DIAG. NO. 30775-01 S48-05-05 (SEE PANEL 15) C	321	~~160°~~	~~5"~~		~~FIBERGLASS OWENS CORNING OR EQUAL~~	~~MIL-I-22344~~	~~3/4~~	~~9-56-04403~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	~~SEE NOTE 1D, 22~~
	322	~~166°~~	~~5"~~		~~FIBERGLASS OWENS CORNING OR EQUAL~~	~~MIL-I-22344~~	~~3/4~~	~~9-56-04403~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	323	~~132°~~	~~6"~~		~~FIBERGLASS OWENS CORNING OR EQUAL~~	~~MIL-I-22344~~	~~3/4~~	~~9-56-04356~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	
	324												
	325												
	326												
	327												
	328												
	329												
	330												

241-S39-02-02 SH2 G 2

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PIPING SYSTEM	ITEM NO.
~~GLAND SEAL & EXHAUST SYSTEM DIAG. NO. 30743-02 S48-10-09~~	~~199~~
	~~200~~
C FOR REQUIREMENTS SEE PANEL 15	~~201~~
	~~202~~
	~~203~~
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FEED, FEED TREATMENT & TRANSFER SYSTEM DIAG. NO. 30744-01 S48-02-01	213
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CONDENSATE SYS DIAG NO. 30744-02 S48-02-02	227
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BOILER BLOW-DOWN & SAMPLE COOLER SYS DIAG NO. 30744-03 S48-01-08	235
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AUX EXHAUST SYS DIAG. NO. 30745-01 S48-10-22 E	~~245~~
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	~~247~~
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E	261
	262
CONTINUED ON PANEL 20 SHEET 2	263
	264

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MA NO.241-S39-02-02GD NO. 30748-11x2 FRAME 1 ② 3 4

Sheet 2 of 2

GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO.241-539-02-02GD NO. 30748-11x2 FRAME 1 2 ③ 4
Sheet 2 of 2

HESIVE EMENT QSN	REMARKS
6-02127	ALL OTHERS
6-02127	
6-02127	FROM H.P. - L.P. TURBINE CROSS
6-02127	CONN. TO BOILER AIR HEATERS
6-02127	
6-02127	
6-02127	
6-02127	
6-02127	ACCOMMODATION & SERVICE AREAS ONLY
6-02127	1-PASSANGERS STATE RM-BRIDGE DK
6-02127	2-CHIEF COOK STATE RM-MN DK
6-02127	3-2ND COOK STATE RM-MN DK
6-02127	4-UTILITY MAN #1,2,3 STATE RM-MN DK
	5-MESSMAN STATE RM
	6-CREWS LAUNDRY
	7-CHIEF STEWARD STATE RM-01
	8-SHIPS OFFICE-02 LVL
	9-PILOT STATE RM-02 LVL
6-02127	ACCOMMODATION & SERVICE AREAS ONLY
6-02127	1-CREWS LAUNDRY-MN DK
6-02127	2-PASSAGE FROM BHD 58 TO 69
6-02127	3-PASSAGE FROM FR41 CABIN DK P&S
6-02127	4-GARBAGE ROOM-CABIN DK
	5-CHIEF STEWARD STATE RM-01 LVL
	6-SHIPS OFFICE-02 LVL
	7-PILOT STATE RM-02 LVL
	8-CREWS REC RM-CABIN DK
~~6-02127~~	ACCOMMODATION & SERVICE AREAS ONLY
6-02127	1-CREWS LAUNDRY-MN DK
6-02127	2-GARBAGE RM-CABIN DK
6-02127	3-2ND COOK STATE RM-MN DK
6-02127	4-UTILITYMAN #1,2,3 STATE RM
6-02127	5-BOSUN STATE RM-CABIN DK
6-02127	6-DK ENG MECH#1 STATE RM-CABN DK
6-02127	7-1ST,2ND,3RD ASST ENG S.R.-CABIN DK
	8-CHIEF STEWARD S.R.-01 LVL
	9-PILOT STATE RM-02 LVL
	10-CHIEF COOK STATE RM-MN DK
	11-MESSMAN#1,2 STATE RM-
	12-AB#5,6 STATE RM-CABIN DK
	13-WIPER #1 STATE RM-CABIN DK
	14-1ST,2ND ELEC STATE RM-CABIN DK
	15-ALL PIPING BARGE DK
6-02127	ACCOMMODATION & SERVICE AREAS ONLY
6-02127	1-PASSAGE FR54-58-CABIN DK-PORT 2-PASSAGE FR55-59-CABIN DK-STBD
6-02127	3-PASSAGE FR40-44-CABIN DK-PORT 4-PASSAGE FR40-44-CABIN DK-STBD
6-02127	5-PASSAGE FR35-36-CABIN DK-STBD 6-PASSAGE & CREW REC RM-FR33-34-CABIN DK-PORT
6-02127	7-LINEN LKR FR57-CABIN DK-PORT 8-WTR CLO-2ND ASSTENG-CAB DK-STBD
6-02127	BARGE CLEANING PIPING FROM THE SEAWATER HEATERS IN MACHY SPACE TO THE FIRE STATIONS ON UPPER DK, MAIN DK LOWER DK AFT USED FOR BARGE CLEANING.

MACHINERY	ITEM NO	MACH TEMP	NO. OF UNITS/SHIP	SQ FT INSUL/UNIT	MACHINERY INSULATION				MACHINERY LAGGING			WIRE			JOINT & FINISH CEMENT		REMARKS
					MATERIAL	SPEC	THK SEE NOTE 18	QSN	MATERIAL	SPEC	QSN	MATERIAL	SPEC	QSN	SPEC	QSN	
BOILER WATER DRUM	1	545°	2	80	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
BOILER STEAM DRUM	2	545°	2	480	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
S.S. TURBO GENERATOR INLET	3	950°	2	120	"ERCO-MAT" OR EQUAL	MIL-I-16411	3"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
S.S. TURBO GENERATOR EXHAUST	4	200°	2	150	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
S.S. TURBO GENERATOR AIR EJECTOR	5	200°	2	50	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
MAIN AIR EJECTOR	6	200°	1	35	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
MAIN FEED PUMP	7	295°	2	50	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
MAIN FEED PUMP TURBINE	8	300°	2	35	"ERCO-MAT" OR EQUAL	MIL-I-16411	1 1/2"	1" THK 9-56-04066, 1/2" THK 9-56-04065	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
DISTILLING PLANT EVAP SHELL	9	165°	2	120	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
S.W. HTR & DRAIN COOLER	10	390°	1	50	"ERCO-MAT" OR EQUAL	MIL-I-16411	1 1/2"	1" THK 9-56-04066 1/2" THK 9-56-04065	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
STANDBY L.O. SERVICE PUMP TURBINE	11	320°	1	20	"ERCO-MAT" OR EQUAL	MIL-I-16411	1 1/2"	1" THK 9-56-04066 1/2" THK 9-56-04065	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
F.O. HEATER	12	250°	3	20	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
STEAM AIR HEATER	13	280°	2	20	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
1ST STAGE FD HTR, GLAND EXH COND&DRN COOLER	14	195°	1	50	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
HOT WATER HEATER	15	180°	1	25	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
DEAERATING FEED TANK & HEATER	16	285°	1	550	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
BOILER COMPOUND FD TANK	17	290°	1	20	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
CONTAMINATED DRAIN INSPECT. TK	18	200°	1	160	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
SAMPLE COOLER	19	545°	2	15	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
BOILER UPTAKES	20	500°		2700	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
EMERG DSL GEN MUFFLER & 8" EXHAUST PIPE	21	920°	1	100	"ERCO-MAT" OR EQUAL	MIL-I-16411	3"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
REFRIGERATION HEAT CYCLE EXCHANGER	22	-20° TO 30°	1	10	FOAMGLASS RIGID 4" BLOCK	HH-I-551 TY I	3 1/2"	9-56-04092	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
EMERG DSL GEN F.W. PUMP	23	99°	1	20	"ARMAFLEX" ARMSTRONG OR EQUAL	MIL-P-15280	1/2"	9-56-04585	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	—	—	—	JOINT BM-G-496	9-88-00428	
AIR COND C.W. PUMP	24	40°	2	20	"ARMAFLEX" ARMSTRONG	MIL-P-15280	1/2"	9-56-04585	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	—	—	—	JOINT BM-G-496	9-88-00428	
H.P. TURBINE	25	950°	1	100	"ERCO-MAT" OR EQUAL	MIL-I-16411	3"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	USE PORTABLE PADS AROUND FLANGES
L.P. TURBINE	26	460°	1	50	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
H.P.&L.P. TURBINE CROSS-OVER PIPE	27	460	1	35	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-56-02950	
BOILER SUPERHEAT HEADERS	28	450	4	60	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400			PORTABLE PADS
F.W. DRAIN INSPECTION TANK	29	212	1	80	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400			PORTABLE PADS DOWN TO FLOOR PLATES

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PIPING SYSTEM	ITEM NO	PIPE TEMP	PIPE IPS	LIN FT OF PIPE	PIPE INSULATION				PIPE L	
					MATERIAL	SPEC	THK	QSN	MATERIAL	SPEC
B BARGE ELEVATOR HYD SYS DIAG NO. 30617-01 S27-00-35	331	180°	1"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04396	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	332	180°	2"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04399	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	333	180°	4"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04402	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	334									
SHIPS F.O. SERVICE - FILLING & TRANSFER SYS DIAG NO. 30727-01 S48-15-01	335	385°	1"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1-1/2"	9-56-04102	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	336	385°	1-1/4"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1-1/2"	9-56-04103	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	337	385°	1-1/2"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1-1/2"	9-56-04104	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
D	338	385°	2"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1-1/2"	9-56-04330	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	339	385°	3"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1-1/2"	9-56-04105	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	340									
AUXILIARY SEA WATER SYS DIAGRAM NO. 30775-01 S48-05-05	341	28°	1/2"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4"	9-56-06612	NOT REQ'D	
	342	28°	3/4"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4"	9-56-06613	NOT REQ'D	
	343	28°	1"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4"	9-56-06614	NOT REQ'D	
	344	28°	1-1/4"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	3/4"	9-56-06615	NOT REQ'D	
	345	28°	1-1/2"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1"	9-56-06562	NOT REQ'D	
C	346	28°	2"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1"	9-56-06563	NOT REQ'D	
	347	28°	2-1/2"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1"	9-56-06564	NOT REQ'D	
	348	28°	3"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1"	9-56-06565	NOT REQ'D	
	349	28°	4"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1-1/2"	9-56-06587	NOT REQ'D	
	350	28°	5"		ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1-1/2"	9-56-06589	NOT REQ'D	
	351	28°	6"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1-1/2"	9-56-04289	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-331
	352									
	353									
	354									
	355									
GLAND SEAL & EXHAUST SYS. DIAG. NO. 30743-02 S48-10-09	356	750°	2"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	3"	9-56-04474	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	357	750°	2 1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	3 1/2	9-56-04512	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	358	750°	4"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	3 1/2	9-56-04499	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	359	750°	5"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	3 1/2	9-56-04501	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	360	440°	2"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04373	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	361	600°	2 1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	3"	9-56-04475	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	362	350°	2 1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04331	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	363	830°	3"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	3 1/2	9-56-04497	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	364	460°	3"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04375	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
C	365	620°	4"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	3"	9-56-04478	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	366	370°	3"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	2"	9-56-04315	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	367	370°	2"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1 1/2	9-56-04283	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	368	950°	2"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	4"	9-56-04205	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	369	811°	4"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	4"	9-56-04209	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	370	225°	1 1/4		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04447	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316
	371	225°	1 1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04448	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316
	372	225°	2 1/2		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04450	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316
	373	225°	3"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04451	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316
	374	420°	1/2		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04100	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316
	375	420°	3/4		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	1 1/2	9-56-04101	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316
	376	420°	3"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04375	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-3316
	377	420°	4"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04377	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-331
	378	210°	1"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-2781	1"	9-56-04446	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-331
	E 379	280°	2"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1-1/2"	9-56-04283	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-331
	380	210°	4"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1"	9-56-04452	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-S-331
PLUMBING SYSTEM DWG. NO. 30656-01 S48-08-07 SUBJECTED TO FREEZING ELECTRIC TRACED	382		1 1/2	80'	ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1"	9-56-06562	NONE REQ'D	
	383		2"	70'	ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1"	9-56-06563	NONE REQ'D	
	384		2"	20'	ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06583	NONE REQ'D	
	385		3"	10'	ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1/2	9-56-06545	NONE REQ'D	
	386		3"	50'	ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1"	9-56-06565	NONE REQ'D	
	387		3"	30'	ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06585	NONE REQ'D	
C	388		4"	30'	ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1"	9-56-06567	NONE REQ'D	
	389		4"	50'	ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1 1/2	9-56-06587	NONE REQ'D	
	390									
	391									
POTABLE WATER SYSTEM DWG. NO. 30654-01 C S48-04-07 SUBJECTED TO FREEZING ELECTRIC TRACED	392		3/8	30'	ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1/2	9-56-06379	NONE REQ'D	
	393		1/2	10'	ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1/2	9-56-06380	NONE REQ'D	
	394		1"	15'	ARMAFLEX ARMSTRONG OR EQUAL	MIL-P-15280	1/2	9-56-06053	NONE REQ'D	
	395									
	396									

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PIPING SYSTEM	ITEM NO	PIPE TEMP	PIPE IPS	LIN FT OF PIPE	PIPE INSULATION				PIPE LAGGING				REMARKS
					MATERIAL	SPEC	THK	QSN	MATERIAL	SPEC	ASBESTOS CLOTH QSN	ADHESIVE CEMENT QSN	
	397												
	398												
	399												
AUX EXHAUST SYSTEM DIAG. NO. 30745-01 S48-10-22 E	400	288°	10"		FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	2"	9-56-04321	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	ALL OTHERS
	401	288°	14"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04386	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	402	475°	2"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04373	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	FROM H.P. - L.P. TURBINE CROSS
	403	475°	2 1/2"		UNIBESTOS PITTS CORNING OR EQUAL.	MIL-I-2781	2"	9-56-04374	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	CONN. TO BOILER AIR HEATERS
	404	475°	4"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2"	9-56-04377	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	405	475°	5"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2 1/2"	9-56-04136	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	406	475°	6"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2 1/2"	9-56-04137	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	407	475°	8"		UNIBESTOS PITTS CORNING OR EQUAL	MIL-I-2781	2 1/2"	9-56-04138	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	408												
	409												
	410												
	411												
	412												
	413												
	414												
	415												
PLUMBING SYSTEM DIAGRAM NO. 30656-01 S48-08-07 E	416		1"	10'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2"	9-56-04346	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	ACCOMMODATION & SERVICE AREAS ONLY
	417		1 1/2"	135'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04398	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	1-PASSANGERS STATE RM-BRIDGE DK
	418		2"	115'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04399	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	2-CHIEF COOK STATE RM-MN DK
	419		3"	50'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04401	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	3-2ND COOK STATE RM-MN DK
	420		4"	125'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04402	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	4-UTILITY MAN #1,2,3 STATE RM-MN DK
	421												5-MESSMAN STATE RM
	422												6-CREWS LAUNDRY
	423												7-CHIEF STEWARD STATE RM-01
	424												8-SHIPS OFFICE-02 LVL
	425												9-PILOT STATE RM-02 LVL
CHILLED WATER DIAGRAM NO. 30645-01 S48-04-01 E	426	42°	1"	30'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1-1/2"	9-56-04400 9-56-04396	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	ACCOMMODATION & SERVICE AREAS ONLY
	427	42°	1 1/4"	55'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1-1/2"	9-56-04281	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	1-CREWS LAUNDRY-MN DK
	428	42°	1 1/2"	75'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1-1/2"	9-56-04282	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	2-PASSAGE FROM BHD 58 TO 69
	429	42°	2"	125'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1-1/2"	9-56-04283	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	3-PASSAGE FROM FR41 CABIN DK P&S
	430	42°	4"	115'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1-1/2"	9-56-04287	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	4-GARBAGE ROOM-CABIN DK
	431												5-CHIEF STEWARD STATE RM-01 LVL
	432												6-SHIPS OFFICE-02 LVL
	433												7-PILOT STATE RM-02 LVL
	434												8-CREWS REC RM-CABIN DK
	435												
POTABLE WATER (COLD) E DIAGRAM NO. 30654-01 S48-04-07 E	~~436~~	~~50°~~	~~1/4"~~	~~50'~~	~~FIBERGLASS OWENS CORNING OR EQUAL~~	~~MIL-I-22344~~	~~1/2"~~	~~9-56-04342~~	~~ASBESTOS CLOTH ADHESIVE CEMENT~~	~~SS-C-466 MIL-A-3316~~	~~9-56-03757~~	~~9-56-02127~~	ACCOMMODATION & SERVICE AREAS ONLY
	437	50°	3/8"	50'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2"	9-56-04343	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	1-CREWS LAUNDRY-MN DK
	438	50°	1/2"	600'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2"	9-56-04344	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	2-GARBAGE RM-CABIN DK
	439	50°	3/4"	210'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2"	9-56-04345	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	3-2ND COOK STATE RM-MN DK
	440	50°	1"	75'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2"	9-56-04346	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	4-UTILITYMAN #1,2,3 STATE RM
	441	50°	1 1/4"	50'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	1/2"	9-56-04347	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	5-BOSUN STATE RM-CABIN DK
	442	50°	2"	15'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04399	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	6-DK ENG MECH#1 STATE RM-CABN DK
	443	50°	2 1/2"	225'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04400	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	7-1ST,2ND,3RD ASST ENG S.R.-CABIN DK
	444												8-CHIEF STEWARD S.R.-01 LVL
	445												9-PILOT STATE RM-02 LVL
	446												10-CHIEF COOK STATE RM-MN DK
	447												11-MESSMAN#1,2 STATE RM-
	448												12-AB#5,6 STATE RM-CABIN DK
	449												13-WIPER #1 STATE RM-CABIN DK
	450												14-1ST,2ND ELEC STATE RM-CABIN DK 15-ALL PIPING BARGE DK
FIREMAIN SYSTEM DIAGRAM NO. 30658-01 S48-03-01 E	451	60°	2 1/2"	220'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04400	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	ACCOMMODATION & SERVICE AREAS ONLY 1-PASSAGE FR54-58-CABIN DK-PORT 2-PASSAGE FR55-59-CABIN DK-STBD 3-PASSAGE FR40-44-CABIN DK-PORT 4-PASSAGE FR40-44-CABIN DK-STBD 5-PASSAGE FR35-36-CABIN DK-STBD 6-PASSAGE & CREW REC RM-FR33-34-CABIN DK-PORT 7-LINEN LKR FR57-CABIN DK-PORT 8-WTR CLO-2ND ASSTENG-CAB DK-STBD
	452	60°	3"	10'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04401	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	453	60°	4"	65'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04402	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	454	60°	5"	60'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04403	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
	455	60°	6"	30'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04404	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	
G	456	200°	3	50'	FIBERGLASS OWENS CORNING OR EQUAL	MIL-I-22344	3/4"	9-56-04401	ASBESTOS CLOTH ADHESIVE CEMENT	SS-C-466 MIL-A-3316	9-56-03757	9-56-02127	BARGE CLEANING PIPING FROM THE SEAWATER HEATERS IN MACHY SPACE TO THE FIRE STATIONS ON UPPER DK, MAIN DK LOWER DK AFT USED FOR BARGE CLEANING.

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MACHINERY	ITEM NO	MACH TEMP	NO. OF UNITS/SHIP	SQ FT INSUL/UNIT	MACHINERY INSULATION				MACHINERY LAGGING			WIRE			JOINT & FIN CEMEN	
					MATERIAL	SPEC	THK SEE NOTE 18	QSN	MATERIAL	SPEC	QSN	MATERIAL	SPEC	QSN	SPEC	
BOILER WATER DRUM	1	545°	2	80	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
BOILER STEAM DRUM	2	545°	2	480	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
S.S. TURBO GENERATOR INLET	3	950°	2	120	"ERCO-MAT" OR EQUAL	MIL-I-16411	3"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
S.S. TURBO GENERATOR EXHAUST	4	200°	2	150	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
S.S. TURBO GENERATOR AIR EJECTOR	5	200°	2	50	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
MAIN AIR EJECTOR	6	200°	1	35	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
MAIN FEED PUMP	7	295°	2	50	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
MAIN FEED PUMP TURBINE	8	300°	2	35	"ERCO-MAT" OR EQUAL	MIL-I-16411	1 1/2"	1" THK 9-56-04066, 1/2" THK 9-56-04065	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
DISTILLING PLANT EVAP SHELL	9	165°	2	120	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
S.W. HTR & DRAIN COOLER	10	390°	1	50	"ERCO-MAT" OR EQUAL	MIL-I-16411	1 1/2"	1" THK 9-56-04066 1/2" THK 9-56-04065	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
STANDBY L.O. SERVICE PUMP TURBINE	11	320°	1	20	"ERCO-MAT" OR EQUAL	MIL-I-16411	1 1/2"	1" THK 9-56-04066 1/2" THK 9-56-04065	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
F.O. HEATER	12	250°	3	20	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
STEAM AIR HEATER	13	280°	2	20	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
1ST STAGE FD HTR, GLAND EXH COND&DRN COOLER	14	195°	1	50	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
HOT WATER HEATER	15	180°	1	25	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
DEAERATING FEED TANK & HEATER	16	285°	1	550	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
BOILER COMPOUND FD TANK	17	290°	1	20	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
CONTAMINATED DRAIN INSPECT. TK	18	200°	1	160	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
SAMPLE COOLER	19	545°	2	15	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
BOILER UPTAKES	20	500°		2700	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
EMERG DSL GEN MUFFLER & 8" EXHAUST PIPE	21	920°	1	100	"ERCO-MAT" OR EQUAL	MIL-I-16411	3"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
REFRIGERATION HEAT CYCLE EXCHANGER	22	-20° TO 30°	1	10	FOAMGLASS RIGID 4" BLOCK	HH-I-551 TY I	3 1/2"	9-56-04092	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
EMERG DSL GEN F.W. PUMP	23	99°	1	20	"ARMAFLEX" ARMSTRONG OR EQUAL	MIL-P-15280	1/2"	9-56-04585	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	—	—	—	JOINT BM-G-496	9-8
AIR COND C.W. PUMP	24	40°	2	20	"ARMAFLEX" ARMSTRONG	MIL-P-15280	1/2"	9-56-04585	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	—	—	—	JOINT BM-G-496	9-8
H.P. TURBINE	25	950°	1	100	"ERCO-MAT" OR EQUAL	MIL-I-16411	3"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
L.P. TURBINE	26	460°	1	50	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
H.P.&L.P. TURBINE CROSS-OVER PIPE	27	460	1	35	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400	FINISH MIL-C-2908	9-5
G BOILER SUPERHEAT HEADERS	28	450	4	60	"ERCO-MAT" OR EQUAL	MIL-I-16411	2"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400		
F.W. DRAIN INSPECTION TANK	29	212	1	80	"ERCO-MAT" OR EQUAL	MIL-I-16411	1"	1" THK 9-56-04066	ASBESTOS CLOTH ADHERED W/UNION PASTE OR EQUAL	SS-C-466 MIL-I-3316	9-56-03757 9-56-02127	1" MESH NET SOFT IRON WIRE	COM'L	9-55-00400		

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GENERAL DYNAMICS, QUINCY DEC., 1973 8X
MA NO.241-S39-02-02GD NO. 30748-11x2 FRAME 1 2 3 ④
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